



# **OPERATION AND MAINTENANCE MANUAL**

## **MAN BASKET**



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**ENGLISH**

**ATTENTION:**

*Always keep a copy of this manual on the  
machine at the operator's disposal*

**AXH1111/UK**



- EVERY PIECE OF MACHINERY IS SUPPLIED WITH:
- A COPY OF THIS MANUAL

**- WARNING**

ALL OF THE DOCUMENTATION SUPPLIED IS AN INTEGRAL AND ESSENTIAL PART OF THE PRODUCT AND MUST ALWAYS BE AVAILABLE FOR USERS. THE LATTER MUST READ THE ABOVE-MENTIONED DOCUMENTATION THOROUGHLY BEFORE USE.

**- PROHIBITION**

IMPROPER, INCORRECT AND UNREASONABLE USE OF THE VEHICLE OR ACCESSORIES SUPPLIED ARE NOT ALLOWED. INTERVENTIONS THAT ALTER THE STRUCTURE OR OPERATION OF THE SAME ARE ALSO PROHIBITED.

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**- ATTENTION**

A COPY OF THIS MANUAL MUST ALWAYS REMAIN ON THE MACHINE AND BE AVAILABLE TO THE OPERATOR



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3. Italian

**TRANSLATION LANGUAGE OF ORIGINAL INSTRUCTIONS:**

4. English

**TRANSLATION OF ORIGINAL INSTRUCTIONS FOR:**

- Man basket APOLLO: BUD6341
- Man basket DEDALUS: BUD6342
- Man basket ICARUS: BUD6221, BUD6222, BUD6226, BUD6227, BUD6231, BUD6232, BUD6238, BUD6239, BUD6243, BUD6248, BUD6250, BUD6251, BUD6252, BUD6253, BUD6254, BUD6384
- Man basket PEGASUS: BUD6224, BUD6229, BUD6234, BUD6241, BUD6250, BUD6251, BUD6252, BUD6253, BUD6375, BUD6380, BUD6381, BUD6382, BUD6390, BUD6395, BUD6396, BUD6397, BUD6398, BUD6399, BUD6400, BUD6401, BUD6402, BUD6403, BUD6404, BUD6405, BUD6406, BUD6407, BUD6408, BUD6409, BUD6410, BUD6411, BUD6412, BUD6413, BUD6414
- Man basket RUNNER: BUD6221, BUD6222, BUD6226, BUD6227, BUD6231, BUD6232, BUD6250, BUD6251, BUD6252
- Man basket SAMSON: BUD6221, BUD6222, BUD6223, BUD6226, BUD6227, BUD6228, BUD6231, BUD6232, BUD6233, BUD6250, BUD6251, BUD6252, BUD6276, BUD6278
- Man basket ZEUS: BUD6245

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Dear customer,

Thank you for choosing a **DIECI**.

This Use and Maintenance Manual has been written to help you fully appreciate your vehicle.

We strongly recommend that you read this manual in its entirety before using the vehicle.

It contains information, advice and important warnings that will help you to fully take advantage of the technical capabilities of the **DIECI**.

You will learn about its features and special practical information in addition to information about its maintenance, driver and operation safety to help maintain your vehicle overtime **DIECI**.

We are confident that you will be happy with your new vehicle and we remain at your disposal should you have any further queries.

Sincerely.

**Sales Management**



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# 1 INTRODUCTION

## 1.1 Structure of the manual

This manual is an integral part of the official documentation of the machine or the equipment. This must be kept with care and made available to managers, operators and staff assigned to maintenance.

## 1.2 Purpose and content

This manual forms an integral part of the official documentation and is aimed at providing the Operator all the information related to the technical, operation and safety aspects in all phases of the machine's service life.



### - ATTENTION

**This manual must be read carefully before using the machine for the first time or before performing the first maintenance operation.**



### - WARNING

**If in doubt regarding the correct interpretation of the instructions, contact the Manufacturer to obtain clarifications.**

## 1.3 Preservation

The instruction manual must be kept in the immediate vicinity of the Operators (in the cab or on the equipment where it is fitted), into a special bag, protected from liquids and anything else that may compromise the state of legibility.

If the manual should become crumpled and/or become even only partly damaged or illegible, or if the manual is lost, it must be replaced immediately by contacting the DIECI TECHNICAL SUPPORT SERVICE providing the general specifications of the manual indicated in the first page of the manual.

## 1.4 Receivers

This manual is for the following categories of people:

- **Operator:** educated and trained person having followed a specific theoretical-practical course on machine or equipment use
- **General maintenance technician:** person educated and trained to perform routine maintenance interventions with basic knowledge of mechanics, electricity and hydraulics.
- **Specialised maintenance technician:** person educated and trained to perform routine and extraordinary maintenance interventions with in-depth and specific knowledge regarding mechanics, electricity and hydraulics, normally sent or authorised by DIECI S.R.L. or authorised dealer.



### - ATTENTION

**Operators must not perform operations reserved for maintenance staff or qualified technicians. The Manufacturer does not respond to damage deriving from the failure to comply with this prohibition.**

#### 1.4.1 *Training*

This manual supplies operators with all vehicle or equipment technical specifications, the presence and type of control and safety devices and the presence and meaning of the plates and safety stickers.

All operators of the vehicle and any equipment must have all necessary information, education and training, adapted in relation to the correct conditions of use of the means and the foreseeable anomalous risks.

The operators must be informed, educated and trained, if necessary, when introducing any new equipment and for each piece of equipment available to operators.



##### **- WARNING**

**Make sure that the Legislation and Standards in force in the country of sale are complied with on the subject of staff information, education and training regarding use of the vehicle and its equipment.**

The Employer must inform all staff regarding the following subjects regarding the safety during use:

- Risk of injury
- Devices provided for operator safety
- General accident-prevention rules and/or envisioned by international Directives
- Accident-prevention rules from the Legislation of the country of destination of the machine

Before starting to work, the operator must know the features of the machine and must have read this Use and Maintenance Manual entirely.

#### 1.4.2 *Training*



##### **- ATTENTION**

**The operator assigned to using the vehicle must have attended a suitable theoretical-practical course with the total duration provided by legislative provisions in the country of use of the machine or the equipment.**

Training must include at least the following subjects:

- use and limit of the operational and emergency controls both of the equipment and the vehicle on which the equipment is assembled.
- Knowledge and understanding of the Use and Maintenance Manual and the control signals, instructions and warnings affixed to the machine
- Knowledge and understanding of the Standards regarding this equipment, including training aimed at recognising and preventing potential dangers in the work place
- knowledge of the mechanical operations of the vehicle in a sufficient manner to allow recognition of a real or potential fault.
- preliminary remarks on construction parts of the vehicle and the concepts of static and dynamic stability.
- Procedures for correct use of the machine in safe conditions regarding the work area and the load handling/lifting, capacity and driving skills
- Knowledge and use of the PPD to wear during use of the vehicle and equipment.
- Knowledge and execution of the periodic maintenance to perform

Training must be carried out under the supervision of a qualified person in an open area free from obstructions. At the end of the practice period, the trainee must be able to use the equipment, and the machine on which it is installed, safely.

The operator must also be informed regarding the responsibility and authority not to use the machine in the event of faults or in the presence of unsafe conditions and to request further information from the Manufacturer or authorised dealer.

### **1.4.3 Qualification**

The machine and the equipment have been designed for professional use only. Therefore, its use must be entrusted to qualified figures, which must:

- be adults
- be physically and mentally suitable to perform particularly difficult technical jobs
- be suitably trained regarding the use and maintenance of the vehicle and equipment
- be considered suitable for the task entrusted to them by the employer
- be able to understand and interpret the manual and safety prescriptions
- know the emergency procedures and their implementation
- have the skill to activate the specific type of machine or equipment
- be familiar with the specific Standards of the case
- have understood the operational procedures defined by the Manufacturer of the machine or the equipment



## 1.5 Terms, units and abbreviations used

	DECIMAL METRIC SYSTEM (SI)		ENGLISH IMPERIAL SYSTEM (IMP)	
	NAME	SYMBOL	NAME	SYMBOL
SURFACE				
	square meter	m <sup>2</sup>	square foot	ft <sup>2</sup>
ELECTRICITY				
	Ampere	A		
	Volt	V		
FORCE				
	kiloNewton	kN		
	Newton	N		
FORCE PER LENGTH				
	Newton/metres	N/m	pounds/inch	lb/in
FORCE PER SURFACE - PRESSURE				
	kilopascal	kPa	pounds/square inch	psi
ROTATION FREQUENCY				
	revolutions per minute	rpm		
LENGTH				
	kilometer	km	mile	mi
	meter	m	foot	ft
	centimeter	cm	inch	in
	millimeter	mm	inch	in
MASS				
	kilogram	kg	pound	lb
	tonne	t	pound	lb
POWER				
	kilowatt	kW	horse power	HP
	Watt	W		
TEMPERATURE				
	degrees Celsius	°C	degrees Fahrenheit	°F
TORQUE				
	Newton-metres	N m	foot-pound	lb ft
			inch-pound	lb in
SPEED				
	kilometers/hour	km/h	mile/h	mph
	metres/second	m/s	feet/second	ft/s
VOLUME				
	cubic meter	m <sup>3</sup>	cubic yard	yd <sup>3</sup>
			cubic inch	in <sup>3</sup>
	liter	l	UK gallon	UK gal
TIME				
	hour	h	hour	h
	minute	min	minute	min
	second	s	second	s

	DECIMAL METRIC SYSTEM (SI)		ENGLISH IMPERIAL SYSTEM (IMP)	
	NAME	SYMBOL	NAME	SYMBOL
VOLUME PER TIME				
	cubic metre per minute	m <sup>3</sup> /min	cubic feet per minute	ft <sup>3</sup> /min
	liter per minute	l/min	UK gallon per minute	UK gal <sup>3</sup> /min
NOISE POWER AND ACOUSTIC PRESSURE				
	decibel	dB		

## 1.6 Symbols used

### 1.6.1 Key of symbols used in the manual

Read carefully the Safety Standards given in the manual and follow the precautions recommended in order to prevent potential dangers and safeguard your health and safety.

The symbols listed below have been introduced to highlight situations that DIECI s.r.l. has wanted to particularly emphasize.

The manual must be read and understood entirely and must be kept inside the machine in a sheltered and protected place, available to the persons operating the machine.

If in doubt, contact your agent or authorised dealer.

SYMBOL	MEANING	COMMENT
	<b>DANGER</b>	Indicates a danger with serious risk for the user.
	<b>SPECIFIC DANGER</b>	Indicates a danger with serious risk for the user. (For example Electrical hazard)
	<b>CAUTION</b>	Indicates a warning aimed at preventing a potentially dangerous situation
	<b>WARNING / NOTE</b>	Indicates a warning or note regarding key functions or useful information.
	<b>PROHIBITION</b>	Indicates the absolute prohibition to perform actions or things that are dangerous for staff.
	<b>CONSULTATION</b>	Indicates a reference to other paragraphs or other manuals.
	<b>MAINTENANCE</b>	Indicates a maintenance operation that must be performed by a general or specialised maintenance technician.
	<b>OPTIONAL</b>	Indicates the possibility of installation or the presence of an optional available at DIECI S.R.L. authorised dealers.

## 2 WARRANTY

The warranty is applied to all manufacturing or material flaws that have been duly established, and is limited exclusively to the repairs and replacement of the parts which, at the Company's discretion are recognised as faulty, as also any labour necessary for these repairs or replacements, on the basis of the warranty times established by the Company.

All interventions performed during the warranty period must be carried out by staff authorised by the Company (if this is not the case, the right to warranty becomes null and void).

### 2.1 Exclusion from the warranty

The warranty does not cover, damage to the machine caused by:

- Operator's errors
- non execution of maintenance provided by this Manual
- faults and/or breakage that cannot be blamed in malfunctioning of the same
- tampering with the equipment
- normal operational wear
- damage of parts with a purely aesthetics function
- repair interventions performed by unauthorised persons or centres
- use of the product in a way that does not comply with the warnings given in this Use and Maintenance Manual.
- damages caused by the unsuitability of the environment in which the equipment operates and by phenomena not depending on normal operation of the same
- components subject to consumption or wear and tear: clutch, belts, brake pads, slides, rollers, oils and liquids, filters, etc.
- the electric plants and components.
- the damages caused by: climatic agents, natural disasters and acts of vandalism etc.
- any other anomaly not due to ascertained original defect or that cannot be attributed to the responsibility of **DIECI S.R.L.**

The following components are also excluded. They will be covered by the warranties of the Manufacturers of said products:

- Diesel engine
- Axles and reducers
- Pumps and hydraulic engines
- Tyres

The application of the above-mentioned warranty will be managed by **DIECI S.R.L.**

### 2.2 Warranty: duration

DIECI S.R.L. guarantees its products for 12 months from the date of delivery to the Customer or Authorised dealer/Retailer.

If the machine is stored for long periods at the Authorised dealer/Retailer at the time of sale to the customer, the After-sales Centre reserves the faculty to check activation of the warranty itself.

### 2.3 Warranty: start date

The warranty comes into force from the date of shipping from the establishment (sale to Authorised dealers or Retailers). When delivery is performed by the Authorised Dealer or Retailer, **DIECI S.R.L.** reserves the right to check that the start date of the warranty is coherent with the start date of transport or delivery present on the transport document of the product, subject of the warranty and/or with the date of invoice, also requesting to see the original copy of these documents.

## 2.4 Warranty: activation

The warranty comes into force from the date of shipping from the establishment (sale to Authorised dealers or Retailers).

## 2.5 Warranty: validity

### 2.5.1 *Warranty in countries where after-sales organisation exists*

The warranty consists in the replacement or repair of faulty pieces due to ascertained flaw in original material, processing and/or assembly

The decision to replace or repair the faulty pieces is at the unquestionable judgement of DIECI S.R.L.

**DIECI S.R.L.** will solve the anomaly with the means and methods deemed most appropriate.

**DIECI S.R.L.** is responsible for:

- The materials used
- The labour
- Travel and transfer costs

The Customer is responsible for:

- the transport and packaging costs for pieces to be replaced
- any other fees not listed among those under the responsibility of **DIECI S.R.L.**

### 2.5.2 *Warranty in countries where after-sales organisation DOES NOT exist*

This consists exclusively in the free supply, ex **DIECI S.R.L.**, establishment, of pieces that can no longer be used due to ascertained flaw in original material, process and/or assembly.

### 2.5.3 *Examination of the faulty pieces replaced*

Before granting the warranty, **DIECI S.R.L.**, can request the return of the faulty components to be replaced during the repair operations, at its own expense.

### 2.5.4 *Additional warranty relative to the repairs performed and the parts replaced*

The repairs performed under warranty and not under warranty and the parts replaced during repair interventions are guaranteed for 3 months from the date of the intervention whenever the main warranty should have expired.

### 2.5.5 *Intervention campaigns for product defects*

The replacement procedures for parts acknowledged as faulty will be agreed between **DIECI S.R.L.** and its authorised dealers/agents/authorised workshops.

These intervention campaigns can be followed directly at DIECI S.R.L. suppliers, responsible for the supply of components to be replaced (interventions authorised by **DIECI S.R.L.**).

These interventions will be preceded by a written communication by **DIECI S.R.L.** to its buyers.

Only **DIECI S.R.L.** can decide the method of intervention (repair, replacement, modification).



## **2.6 Warranty: request for intervention**

### **2.6.1 Warranty: claim**

The claim regarding the defect must be made by the Operator customer, the Authorised dealer, the Retailer or the Authorised workshop and must reach the **DIECI S.R.L.** after-sales dept. within the maximum term of 8 days from its detection.

The claim must contain a clear description of the defect and the exact vehicle references (type, model and serial number). These references are present on the machine in the positions indicated in the USE AND MAINTENANCE MANUAL.

### **2.6.2 Obligation for vehicle shutdown**

If a risk exists that the defect can compromise the accident-prevention safety or cause further damage, it is mandatory not to use the vehicle until it has been repaired and inspected.

**Every modification made to the vehicle leads to a new verification of conformity with the 2006/42/CE Machinery Directive. This procedure is also valid in the event of repairs using non-original spare parts.**

**For any dispute, the Court of Reggio Emilia – ITALY is acknowledged as having exclusive competence.**

## **2.7 No activation, non concession, termination**

### **2.7.1 Warranty: non concession**

The warranty is not granted:

- when the defect is not reported in the ways and times established.
- when the request by **DIECI S.R.L.** to return faulty parts replaced during the repairs intervention is not complied with.
- When the machine shutdown obligation has not been respected, limited to the damage caused by this infraction.

### **2.7.2 Warranty: termination**

The warranty is stopped by right:

- When the buyer has not complied with the contractual obligations regarding payment.
- When the damage has been caused by carelessness, negligence, use non-conform to the indications stated in the use and maintenance manual (manoeuvre errors, overloading, unsuitable re-fuelling, bad maintenance, failure to comply with the use of indicator instruments, etc.)
- When the defect is due to applications, equipment, modifications or repairs that are not authorised by **DIECI S.R.L.** or carried out using bad quality parts. (Regarding this, the use of original spare parts is advised).



**Refer to the “MAINTENANCE” paragraph for periodic routine maintenance.**



## 2.8 Final provisions

In none of the cases stated regarding no activation, no concession and termination of the warranty, can the buyer expect dissolution of the contract, reimbursement for damages or renewal of the warranty.

Any warranty conditions different to those indicated above, must be agreed in writing and signed by the parties.

Excepting different agreements made previously in writing between the parties; **DIECI S.R.L.** will not pay compensation for any debt caused by machine standstill, such as:

- Replacement or hired vehicle
- Labour
- Loss of earnings

## 3 SAFETY STANDARDS

### 3.1 General warnings

Respect for the user, maintenance and repair operations described in this manual, are fundamental elements that qualify the use declared by the Manufacturer.



#### - PROHIBITION

**THE VEHICLES AND EQUIPMENT CANNOT BE MODIFIED WITHOUT THE MANUFACTURER'S AUTHORISATION**

Do not modify the structure or the adjustment of the various vehicle or equipment components so as not to jeopardise own safety and that of others. The same is valid for the deactivation or modification of the safety devices present.



#### - ATTENTION

**Any modification made to the vehicle or equipment, relieves *DIECI S.R.L.* from all liability deriving from consequent damage or injury.**



#### - ATTENTION

**Every vehicle or piece of equipment must be used, assisted or repaired only by persons previously trained regarding the means and the Safety Standards as well as being authorised to operate with the vehicle or equipment itself.**



#### - ATTENTION

**The operator must always comply with general Safety and Accident-prevention Standards as also the Highway Code, if the vehicle is used on public roads (according to the Standards in force in the country of use).**



#### - PROHIBITION

**USE OF THE VEHICLE OR EQUIPMENT, DIFFERENT TO THAT DESCRIBED IN THIS MANUAL, IS PROHIBITED**



#### - PROHIBITION

**THE VEHICLES OR EQUIPMENT IN QUESTION ARE NOT SET-UP FOR USE IN ENVIRONMENTS OR SITES EXPOSED TO THE EVENTUAL PRESENCE OF EXPLOSIVE GASES, THEREFORE USE IS PROHIBITED IN THESE PLACES.**

In order to operate in these environments, the manufacturer must be contacted in order to make the due modifications to the vehicle.



#### - PROHIBITION

**All functions, procedures, inherent the use and set-up of the vehicle of equipment, not described in this manual are PROHIBITED.**



#### - DANGER

**DO NOT USE THE VEHICLE OR EQUIPMENT IF UNDER THE EFFECT OF ALCOHOL, DRUGS OR MEDICINES THAT CAN CAUSE DROWSINESS OR ALTER REFLEXES.**



#### - ATTENTION

**Read all safety decals applied to the vehicle and respect the Standards stated herein before starting, activation, re-fuelling or performing maintenance. Replace damaged, lost or illegible decals immediately. Clean them when they are covered in mud, cement or debris.**



#### - WARNING

***DIECI S.R.L.* does not respond to damage caused by negligent use of the vehicle or equipment, even if bad use is not intentional. Everything possible was carried out in the vehicle manufacturing phase to make your job as safe as possible. Caution is irreplaceable and there is no better rule for the prevention of accidents.**

## 3.2 Safety indications



### - ATTENTION

**Carefully comply with and follow all safety signs on the vehicle and equipment and read all safety messages given in this manual.**

- The safety signs must be installed, serviced and replaced when necessary.
- If a safety sign or this manual are damaged or missing, order a replacement from the DIECI **S.R.L.** Authorised dealer in the same way as ordering spare parts (check that the vehicle or equipment model and serial number are communicated when placing the order).
- Learn how to run the vehicle and accessories correctly and safely along with their respective controls.
- Only allow trained, qualified and authorised staff to run the vehicle and accessories installed.
- Keep the vehicle and accessories in good working order.
- Unauthorised modifications to the vehicle or accessories can compromise operation and/or safety and affect the lifespan of the same.
- The safety messages given in this SAFETY STANDARDS chapter intend to illustrate the basic safety procedures of the vehicles.
- If in doubt, contact the person directly in charge before operating or performing maintenance on the vehicle or the accessories.

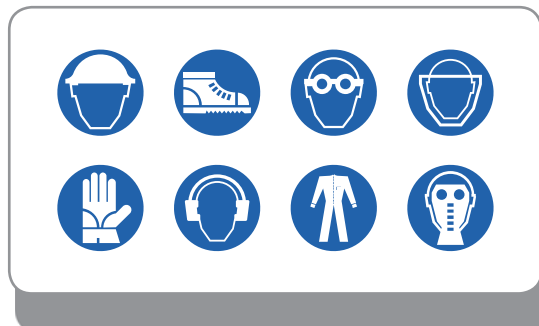
## 3.3 Personal Protection Devices

### 3.3.1 Protective clothing

In some cases, when operating in inconvenient environments, the following garments or equipment must be worn.

The following must be made available:

- Protective helmet
- Accident-prevention shoes
- Accident-prevention glasses or protective facial mask
- Accident-prevention gloves
- Protections against noise
- Reflective clothing
- Waterproof clothing
- Breathing apparatus or filtering mask



Before starting work, all staff must obtain information from the Safety Manager regarding the possible risks and the accident-prevention equipment he must wear.



#### - ATTENTION

The Personal Protection Devices that are used by the operators can have different features depending on the type of site and the risks present in the work place.

Always use the PPD suitable for the type of job to be performed.



#### - ATTENTION

Pay attention to moving parts in order to prevent crushing or dragging of upper and lower limbs. Do not wear jewels or loose objects that could remain trapped in moving parts. Tie long hair back to prevent it becoming trapped in moving parts.



#### - PROHIBITION

Do not wear loose clothing, chains, belts or other accessories that can become entangled with the control levers or other vehicle components.



#### - PROHIBITION

Do not wear head sets to listen to the radio or music while operating with the vehicle.



#### - ATTENTION

Accident-prevention clothing must always be integral and in good condition. Ruined clothing does not guarantee suitable protection. Do not wear deteriorated clothing: replace them before starting to operate.



### 3.3.2 *Protection against noise*

Prolonged exposure to loud noise can cause weakening or loss of hearing.



#### **- ATTENTION**

Wear hearing protection such as ear protectors or ear plugs for protection against very loud and annoying noises.

### 3.3.3 *Protection against falling objects*

The vehicle is equipped with a cab for protection against falling objects (FOPS).



#### **- ATTENTION**

In the event of risk from falling objects the helmet must be used.

### 3.3.4 *Be protected from flying fragments.*



#### **- ATTENTION**

Particles of material can be expelled during processing in particular conditions. In this case it is good practice to wear accident-prevention glasses and move anyone not supplied away.

### **3.4 Preparation for accidents**

- It is important to be prepared for the occurrence of a fire or accident.
- Keep a first aid kit and fire extinguisher on hand. (Not supplied by the manufacturer, "optional accessories").
- Periodically check the first aid box to ensure it is complete and update the content if necessary.
- Read the instructions on the extinguisher thoroughly in order to use the same appropriately.
- Perform inspections and routine maintenance every six months to ensure that the extinguisher is always in good working order.
- Establish priority procedures for facing up to fires and injuries.
- Keep emergency telephone numbers of doctors, ambulances, hospitals and fire brigade in a position that can be seen clearly near to the telephone itself.
- Staff suitably educated and trained through relevant theoretical-practical course in the workplace/on site must be present for the management of emergencies.

Below find some standard first-aid procedures that can be implemented in the event of an accident following use of the vehicle or equipment, subject of this use and maintenance manual.

These procedures can be useful for the operators or other operators present in the immediate vicinity, in emergency circumstances during use and the various phases of the vehicle and equipment lifespan (transport, installation, use, maintenance, adjustment, etc.).

#### **3.4.1 Tasks of the first-aider**

1. Activate first aid (emergency call).
2. Evaluate the victim and, if necessary, perform life support procedures.
3. Stop any external haemorrhage.
4. Protect wounds and burns.
5. Protect the victim from further injury.
6. Do not perform useless or damaging actions, such as administer drinks, move the victim, reduce strains and/or fractures, etc.

#### **3.4.2 Emergency phone call**

The positive result of a rescue intervention also depends on the speed that the emergency services manage to reach the place of the emergency.

For this reason, the person assigned to making the emergency call must precisely indicate:

- The address and place of the accident (or illness).
- The number of people injured (or ill).
- The possible cause of the event.
- The state of the vital signs of the injured person, specifying whether the person is conscious or not and if he is breathing normally.

At the end of the call, it is always good practice:

- To give your personal information, indicating a telephone number where you can be reached.
- To wait for the emergency services outside the company building (e.g. near to the reception).



### 3.4.3 Traumas

#### **Treatment of sprains, strains and fractures:**

The joint must be immobilised in the position it is found after the trauma using stock or bandaging, supporting the less painful position of the victim without attempting dangerous movements. Apply a cold object (a bag of ice or other). In the event of a compound fracture, cover the wound with a sterile gauze, after having compressed the relative haemorrhage at a distance in specific points.

#### **Contusions, crushing:**

In the event of contusion and/or crushing of the ends of upper and lower limbs (fingers, hands, toes, feet, etc.), put the injured part under cold running water immediately and apply an instantaneous ice pack. Moreover, check if there are wounds and/or cuts in the area affected and disinfect carefully, if necessary.

### 3.4.4 Haemorrhage

Direct pressure must be applied to the haemorrhage point using a sterile gauze, the limb must be raised and pressure applied upstream from the haemorrhage using a tourniquet.

#### **Treatment of superficial wounds:**

Expose and clean the wound and wash it well, disinfect using saline solution, medicate and cover with a sterile gauze. Apply a bandage; do not tighten excessively in order to allow correct circulation.

#### **Treatment of deep wounds:**

It is priority to protect from the risk of contamination using gloves and splashguard visor, tampon the haemorrhage with direct pressure or using other pressure points until it stops or the ambulance arrives. Call the medical emergency number, explaining that you are tamponing an arterial haemorrhage.

Only treat the wound when the haemorrhage is under control.



#### **- WARNING**

**When disinfecting a wound, DO NOT use cotton wool, denatured spirit or antibiotic powder.**



## 3.5 Preventing fires and accidents

### 3.5.1 Fire risk



#### - PROHIBITION

It is prohibited to smoke or use naked flames when using the vehicle or during any maintenance operation.



#### - DANGER

Do not operate the vehicle if the following safety conditions are not present:



#### - DANGER

**1 - Fuel, oil and lubricant leaks can trigger fires and cause serious injuries.**

- Check there are no inflammable liquid leaks.
- To prevent oil and fuel leaks, check that there are no loosened or missing straps, twisted flexible hoses or which rub together.
- Do not bend pressurised hoses.
- Never install damaged hoses.
- Never weld hoses or pipes that contain inflammable liquids.
- Do not use a cutting torch to cut the piping or hoses containing inflammable liquids.



#### - DANGER

**2 - Short circuits can cause fires.**

- Check there are no short circuits.
- Clean and interrupt all electric connections.
- Before each shift, check that there are no loosened, twisted, hardened or damaged electric cables.



#### - DANGER

**3 - Accumulated fuel, oil, grease, waste, debris or carbon dust or other inflammable products can trigger fires.**

- Remove the inflammable materials.
- Prevent fires by inspecting and cleaning the vehicle every day, immediately removing inflammable components.
- Check the ignition switch: in the event of a fire, an engine stop fault will obstruct the Fire Brigade.
- Do not use naphtha, petrol or inflammable liquids to clean parts of the vehicle. Use non-inflammable detergents only.



#### - DANGER

**4 - Handle dangerous liquids in safe conditions**

- Handle fuel with care: it is very inflammable. An explosion and/or fire could occur if the fuel catches fire.
- Do not re-fuel the vehicle when smoking and in the presence of kindling or sparks.
- Always stop the engine before re-fuelling the vehicle.
- Fill the tank in the open air.
- All fuels, most lubricants and some anti-freeze products are inflammable.
- Keep inflammable fluids away from fire risks.
- Do not burn or perforate pressurised containers.
- Do not keep cloths soaked in lubricants; they can generate fires and spontaneous combustion.

### 3.5.2 *Risks of gas inhalation*



#### - DANGER

**The engine exhaust gases are toxic and can damage health.**

- If operating in closed environments, make sure there is sufficient ventilation and fit the vehicle with relevant purifiers.

### 3.5.3 *Risks of battery explosion*



#### - DANGER

**The battery gas can explode.**

- Keep sparks, naked flames and lit cigarettes away from the upper part of the battery.
- Never control the battery charge by placing a metal object between the clamps. Use a voltmeter or a densimeter.
- Do not generate sparks when connecting the battery in the re-charge phases or engine start-up with auxiliary battery.
- Do not charge the batteries if they are very cold, very hot or damaged as they can explode.
- Heat the batteries up to 16°C.
- The battery electrolyte is a very corrosive acid.
- If the battery explodes, the electrolyte could be sprayed into the eyes and cause blindness.
- Ensure protective glasses are worn when servicing batteries.
- Do not overturn or tilt the battery: acid may escape.

### 3.5.4 Residual risks



#### **- KEEP AWAY FROM MOVING PARTS**

Entrapment in moving parts can cause damage.



#### **- AVOID BURNS**

- Jets of hot fluids:

After operation, the engine cooling liquid is hot and pressurised. Contact with escaping hot water or steam can cause serious burns.

Avoid possible injury caused by jets of hot water. Do not remove the cap from the radiator until the engine is cold. To open, unscrew the cap up to the retainer. Discharge all of the pressure before removing the cap.

- Hot fluids and surfaces:

The engine oil, reducer oil and hydraulic plant oil heat up during use of the vehicle. The engine, rigid pipes, flexible hoses and other components heat up.

Wait for the components to cool before starting maintenance and repairs.



#### **- PAY ATTENTION TO PRESSURISED FLUIDS**

Fluids such as pressurised fuel or hydraulic oil can penetrate the skin and eyes, causing serious injury.

Prevent these dangers while repairing or performing maintenance on the vehicle, by discharging the pressures (using the distributor hydraulic levers) before disconnecting or repairing hydraulic hoses and parts.

Make sure that all fittings are fastened correctly before starting the engine again.

Look for seepage using a piece of cardboard; make sure that the hands and body are protected against pressurised fluids. Protect the eyes, wear a face mask or accident-prevention glasses.

Seek medical advice immediately if an accident occurs. Any fluid injected under the skin must be removed by surgery within a few hours in order to prevent infection.



#### **- ELECTROCUTION**

All maintenance interventions and/or adjustments to be performed on live parts must be carried out only by qualified and suitably trained staff.



#### **- SLIPPING RISK**

During the operations performed on site, the areas surrounding the equipment can show various types of debris and liquids (oil, water, etc.), which can make the ground slippery. Pay great attention.



#### **- FALLS, TRIPPING RISK**

Pay great attention when climbing onto or off of the vehicle.



#### **- CRUSHING OF HANDS AND FEET**

The presence of moving parts during operation, can cause risks for the operators on the ground. During vehicle manoeuvres, carefully check that there are no unauthorised persons within the area necessary for movement.



### 3.5.5 *Contact with dangerous substances*

- Wear the necessary protective clothing.
- Avoid contact with the skin and eyes.
  - In the event of contact with eyes: wash thoroughly with a lot of water for a few minutes, keeping the lids open and then seek medical advice.
  - In the event of contact with skin: wash thoroughly with soap and water, remove contaminated clothing and use a conditioning cream if the skin tends to dry. Seek medical advice, if necessary.
  - In the event of inhalation: move away from the contaminated area to a well-ventilated place. Seek medical advice in the event of respiratory problems.
  - In the event of ingestion: seek medical advice immediately, showing the label or container of the substance. Do not induce vomiting in order to prevent intake via the respiratory tract.

## 3.6 Recommendations for working in safety

### 3.6.1 Check cleaning.

- Clean the windows, the glass of the lights and the rear-view mirrors.
- Clean waste and dirt from the engine, the joints and the radiator.
- Make sure that the step and handle are dry and clean.
- Clean all safety stickers and the manoeuvre indications. Replace them if they are illegible or missing.



Refer to the "CLEANING" chapter for cleaning procedures.



**- PROHIBITION**

Do not start to operate if the vehicle or equipment are not in perfect working order.

### 3.6.2 Check damage.

- Check there are no damaged or missing parts.
- Check that all articulation pins are appropriately fixed.
- Control for the presence of any cracks or damage to the windows.
- Check there are no oil, fuel or cooling liquid leaks under the vehicle.
- Check tightness of the wheel bolts.



**- PROHIBITION**

Do not start to operate if the vehicle or equipment are not in perfect working order.

### 3.6.3 Start to work with the vehicle.

Before starting the vehicle, familiarity must be obtained with the position and operation of all controls and instruments, independently of the driver's experience.

- Check staff positioning before running the vehicle.
- The luminous signs must always be on during the work and movement phases. This is used to warn staff that the vehicle is about to move.
- When operating in a crowded area, engage an extra person for signalling.
- During manoeuvres or movement, pay attention to bulky parts of the vehicle. There are parts that project beyond the cab dimensions.
- The controls must never be used for different purposes than those for which they are intended; such as climbing on to/off of the vehicle or hanging clothes, etc...
- Only run the vehicle from the driver's position.
- Starting the engine with inappropriate procedures can cause unexpected movement of the vehicle, with the possibility of risks to persons.
- Only start the engine from the driver's position.
- Never start the engine by making a short circuit between the starter-motor terminals.
- Make sure that all control levers are in neutral before starting the engine.



### 3.6.4 *Transporting passengers*

Only the operator must be on board the vehicle; passengers are not allowed.

Passengers can obstruct the operator's view, thus causing unsafe vehicle operation.



#### **- PROHIBITION**

**It is prohibited to transport or lift persons using the vehicle, unless an aerial work platform is installed on the vehicle and this is supplied with the certificate of conformity relative to lifting persons.**



#### **- PROHIBITION**

**However, in presence of an aerial work platform and certificate of conformity, persons must not be transported inside the basket while the vehicle is in movement. It is mandatory to use the passenger basket only with the parking brake engaged and outriggers lowered (if present).**

### 3.6.5 Protection of the electric plant



#### - ATTENTION

**A burned fuse must be replaced with another fuse of the same type, amperes and class.  
Other interventions are not allowed, even if temporary.**

Do not connect or remove clamps, fuses, connectors with vehicle running or powered electrically.



#### - ATTENTION

**Any intervention on the electric plant must be performed with the vehicle not powered electrically. Restore the power supply only when the intervention has been concluded and the covers and guards have been remounted.**

- Operate on the battery cut-off device to remove the power supply to the vehicle.
- Remove the power supply via the battery cut-off device also before replacing the battery.
- If the connector should be damaged or no longer remain inserted in its seat, this must be replaced immediately in order to prevent short circuits or sparks.



#### - ATTENTION

**Damaged, pinched, burned cables must be replaced immediately even if the damage only concerns the sheath or external insulation.**

- Do not cut-off any supply circuit connection, including battery connections, with the engine running.
- Never short circuit any power supply branch to mass (earth).
- Do not use auxiliary battery with nominal voltage over 12 volts.
- Always observe correct polarity when installing the batteries or using an auxiliary battery for start-up via jump-start cables. Follow the Use and Maintenance instructions when starting the vehicle with jump-start cables.
- Always disconnect the battery negative cable before performing arc welding on the vehicle or any other tool connected to it.
- Position the welding device earth clamp as near as possible to the area to be welded.



#### - ATTENTION

**If welding must be performed in proximity of an electric component, the component must be removed from the vehicle.**

**It is recommended that this operation is performed by qualified and authorised staff.**

- Prevent the welding device cables from being on, near to or crossing any electric cable or electric component while welding is in progress.

### 3.6.6 Signalling to several vehicles







During jobs requiring several vehicles, make signals normally known by all staff engaged. Moreover, appoint a person to give signals and to co-ordinate the work area.



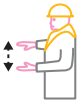



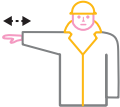
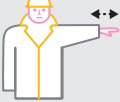
#### - ATTENTION

**Ensure the following conditions before starting to operate:**

- Make sure that the operator and the signalman know the hand signals in order to interact with each other
- Make sure that all staff follows the instructions given by the person assigned to signalling.
- The signalman must be easily identifiable by the vehicle operator.
- The signalman must wear or grip one or more suitable elements of recognition, such as jacket, helmet, sleeves, wrist bands, signalling disks.
- The elements of recognition must be in a bright colour, preferably unique, and used only by the signalman.

Movement	Meaning	Description
	Start - Caution - Taking control	Both arms extended horizontally with the palms facing forwards.
	Stop - Interruption - End of movement	The right arm faces upwards with the palm facing forwards.
	Danger - Stop - Emergency stop	Both arms upwards.
	End of the operations	Both hands are clasped at chest height.
	Raise	The right arm points upwards with the palm facing forward and slowly makes a circle.
	Lower	The right arm points downwards with the palm facing inwards and slowly makes a circle.



Movement	Meaning	Description
	Vertical distance	The hands indicate the relevant distance on top of each other.
	Horizontal distance	The hands indicate the relevant distance at the side of each other.
	Move forwards	Both arms are bent with the palms facing the body, and the forearms make slow movements towards the body.
	Move backwards	Both arms are bent with the palms facing forwards, and the forearms make slow movements away from the body.
	To the signalman's right	The right arm is extended more or less horizontally with the palm facing downwards and slowly makes small movements to the right.
	To the signalman's left	The left arm is extended more or less horizontally with the palm facing downwards and slowly makes small movements to the left.
	Rapid movement	The hand signals used to indicate the movements are made quicker.
	Slow movement	The hand signals used to indicate the movements are made very slowly.

### 3.6.7 Working in dangerous conditions with risk of falling masses and objects



#### - FALLING OBJECTS

During jobs in places where there is a risk of falling, rebound or intrusion of objects, which can hit the operator or enter the cab:

- Assemble the adequate guards for operator protection.
- Always close the windows.
- Always make sure that the operators in the vicinity are at a safe distance and cannot be hit by rebounding or falling objects.
- Pay attention to collapsing walls, landslides, falling material or objects of the equipment installed, which could hit the cab, the structure of the guard or windows, causing damage to the vehicle and operator.
- Do not work under overhang; this could give way and fall onto the vehicle.
- Do not load or fill the equipment installed excessively or transport loads that could escape or fall to the ground.



#### - ATTENTION

In the event of risk from falling objects the helmet must be used.

### 3.6.8 Work in proximity of electric lines



#### - HIGH VOLTAGE

Before working in the vicinity of overhead electric lines, check that the safety distance is sufficient with respect to the Standards in force in the country the vehicle is used. In all cases, never work near to electric lines at distances less than those stated in the table below or the minimum distances indicated by the Standards in force in the country where the vehicle is used.

Wet land increases the area in which persons could be electrocuted.

Working or parking the vehicle too close to electric cables leads to the risk of electrocution or serious injury.

Engage a person on the ground to signal excessive vicinity to electric cables.

If work must be performed in the vicinity of electric cables, do not allow anyone to approach the vehicle. To prepare for any possible emergency situation, wear rubber gloves and shoes, cover the seat with a rubber sheet and pay attention not to touch the sheet with unprotected parts of the body.



#### - DANGER

In order to prevent electrocution if the vehicle should hit an electric cable, the operator must remain inside the driver's cab until it has been confirmed that the distribution of electricity has ceased.



#### - DANGER

If jobs must be performed in the vicinity of overhead electricity lines, refer to the table below for the distance to be kept from the same. The table is given in Legislative Decree 81/08 Attachment IX. The table is only valid if the vehicle is used on Italian territory. Refer to the Reference Standards of the country of use of the vehicle.

Un (kV)	Vertical distance
$\leq 1$	3 m (9,84 ft)
$30 < Un \leq 132$	3.5 m (349.91 cm)
$30 < Un \leq 132$	5 m (499.87 cm)
$> 132$	7 m (699.82 cm)

### 3.6.9 Working in snow



#### -SNOW OR ICE

Snow hides obstacles and traps, buries objects, covers holes, excavations and ditches; therefore proceed with great care in the event of a snowfall.



#### - PROHIBITION

**It is prohibited to operate when the snow is such to prevent clear distinction of obstacle and traps on the route.**

- When clearing the snow, pay great attention not to leave the edge of the road; that buried at the margins could cause the vehicle to roll-over or damage to components.
- Surfaces covered in snow or frozen surfaces are extremely dangerous. Operate with caution, reducing the vehicle's speed as much as possible and activating the levers slowly.
- Operate with caution. If the vehicle sinks in the snow, there is a risk of it rolling over and remaining buried. Pay attention not to go off of the edge of the road and remain trapped in a pile of snow.
- Pay great attention to frozen land; with the increase in temperature the same loosens and becomes slippery.
- Pay attention to electric cables, ditches and excavated ground or that has been filled-in recently.
- Make sure there are no risks to persons during reverse manoeuvres.
- Always control the space around the vehicle before making any manoeuvre.



#### - WARNING

**If working at low temperatures (-10°C) empty the tanks and fill with lubricants, fuel and cooling liquids suitable for these temperatures.**



**Accessories are available that facilitate work in conditions with ice or snow; contact your agent or authorised dealer.**

### 3.6.10 Working in environments with little light



#### - ATTENTION

**The standard lighting of the vehicle is not suitable in environments with poor visibility or for night time use. The machine can only be used when the work place is lit suitably**



**Various options are available to improve the visibility in adverse lighting conditions. Contact your DIECI s.r.l. authorised dealer.**

### 3.6.11 Working in closed places



#### - PROHIBITION

**Use of the vehicle IS PROHIBITED in protected environments such as refineries and explosive atmospheres.**



#### - ATTENTION

**The machine can only work in tunnels if it has been declared suitable for said environments. In the event of environments with atmosphere with risk of explosion, the vehicle must be appropriately modified and certified.**

### 3.7 Storing dangerous liquids



#### - WARNING

Handle fuel with care, it is easily inflammable. An explosion and/or fire could occur if the fuel catches fire.



#### - INFLAMMABLE MATERIAL HAZARD

All fuels, most lubricants and some anti-freeze products are inflammable.



#### - DANGER

All fluids must be kept out of the reach of children and unskilled staff.



#### - NO SMOKING AND NAKED FLAMES

It is prohibited to smoke or use naked flames in the vicinity of fuels.



#### - PROHIBITION

Fluids of different nature must not be mixed together.



#### - ATTENTION

All chemical products are in general noxious for the health, avoid contact with the skin and eyes by wearing suitable protective clothing; do not ingest.



#### - ATTENTION

Comply with the following instructions for the storage of dangerous liquids:

- All inflammable fluids must be stored in special containers, and the content of the containers must be clearly indicated. Containers must be tightly sealed.
- Store inflammable fluids in well-ventilated locations, far away from heat sources, sparks and open flames.
- Keep containers closed and covered. Other substances (e.g. foodstuffs) must not be present in this location.
- Always fill-up the tank outside..
- Take care of fumes and steam which may be formed by chemical products. Do not inhale.
- Do not breathe in fuel fumes.
- Ensure that these chemical products do not spill or flow into the ground, sewers or puddles. Other chemical substances (ex. If necessary, inform the competent local authorities.
- In the event of a fire, use carbon dioxide, dry chemical powder, foam, sprinklers, sand, earth. Use jets of water to cool down surfaces exposed to the fire.
- Verify that there are no leaks of inflammable liquid (fuel, oil, grease, general lubrication leaks) in the storage containers.





### 3.7.1 Working in windy conditions

The variation of wind speed can lead to many problems such as vehicle stability, the oscillation of the load, reduced visibility due to dust rising and leaves etc.

Other unfavourable factors for using the vehicle are:

- Site location: the aerodynamic effect of buildings, trees and other structures lead to an increase in wind speed.
- The height of the extended boom: the more it rises vertically, the faster the wind speed.
- The load clearance area: the more area it occupies, the greater the effect of the wind.



#### - HIGH WIND

The **DIECI** telescopic handlers can be used up to wind speed of 45 Km/h equal to 12.5 m/s (N°6 on the Beaufort scale) measured on the ground. 45 Km/h

At a temperature of 10°C, a wind speed of 32 Km/h means a temperature of 0°C is perceived on exposed parts of the body. The higher one goes, the more the wind speed increases and the greater is the sensation of a drop in temperature.



#### - DANGER

**Never lift loads with surfaces smaller than 1 m<sup>2</sup> in the presence of a fresh breeze (n°5 on the Beaufort scale).**

Below find the graphics of the Beaufort scale in order to indicatively determine the wind speed at which work is being performed and therefore suspend the work operations if these determined values should be exceeded.

Beaufort Wind Scale			
N°	Definition	Indicators	Speed (m/s)
0	Calm	Smoke rises vertically	0 - 0,2
1	Light air	Smoke drift indicates wind direction	0,3 - 1,5
2	Light breeze	Wind felt on exposed skin. Leaves rustle and wind vanes begin to move	1,6 - 3
3	Gentle breeze	Leaves and small twigs constantly moving, light flags extended	3 - 5
4	Moderate breeze	Dust and loose paper raised. Small branches begin to move	5 - 8
5	Fresh breeze	Small trees in leaf begin to sway. Moderate waves of some length	8 - 11
6	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult	11 - 14
7	High wind	Whole trees in motion. Effort needed to walk against the wind	14 - 17
8	Fresh gale	Some twigs broken from trees. Cars veer on road	17 - 21
9	Strong gale	Slight damage to buildings (chimneys and tiles fall)	21 - 24





### 3.7.2 Evaluating the soil consistency

The ground on which the vehicle can be positioned must be able to support the vehicle and its maximum carrying capacity.



**- DANGER**

The caving-in of the bottom of the vehicle may cause it to overturn.



**- ATTENTION**

Refer to a specialised technician to evaluate the consistency of the ground according to regulations in force in the country where the vehicle is used.



**- NOTE**

In any case, request a specialised technician to verify whether there are hidden cavities (conductors, wells, old cisterns, basements, manure heaps, etc.).



Refer to the *"Technical data"* Chapter in the vehicle manual to learn the maximum load on the ground that each wheel or outrigger foot (if present) exerts while the vehicle is used.

## 4 INTRODUCTION

### 4.1 General information

The exchangeable equipment treated in this manual for use and maintenance is a self-propelling aerial platform located at the end of a telescopic lifting and rotating boom.

This equipment has been designed for lifting the staff and the relative tools and consume material above the ground.

The purpose of this publication is to supply the operator with effective and secure instructions regarding the use and maintenance of:



#### Man basket



#### - ATTENTION

All other use will be considered contrary to the use declared by *DIECI S.R.L.* which, therefore, cannot be considered liable for damage to objects or equipment itself or injury to persons deriving from the same.

**For other controls or claims to authorised bodies, refer to the local legislation in force in the country of use of the equipment.**

#### 4.1.1 *Position of the identification plates*

##### **Front baskets and extendable front baskets**

The identification plate of all models of front baskets and extendable front baskets is located on the right rear side on the work platform level (Fig. 1-D0000).

##### **Three-sided baskets and extendable three-sided baskets**

The identification plate of all models of three-sided baskets and extendable three-sided baskets is located on the right rear side on the work platform level (Fig. 2-D0000).

##### **Baskets in aluminium**

The identification plate of all models of aluminium baskets is located on the rear right side of the basket (Fig. 3-D0000).



1-D0000



2-D0000



3-D0000

## 4.2 Identification of man baskets

### 4.2.1 Nameplate on the basket

Each equipment is provided with an identification nameplate, that contains all the essential data.

1. Model:
2. Serial number
3. Year of manufacture
4. Mass (Kg)
5. Bearing capacity (Kg)
6. Number of persons
7. Maximum hydraulic pressure (bar)
8. Barycentre (mm)

The nameplate contains the following information:

- 1**: MODELLO / MODEL
- 2**: IATRICOLA / SERIAL NO.
- 3**: ANNO / YEAR
- 4**: MASS / MASS
- 5**: PORTATA / CAPACITY
- 6**: CON N° PERSONE / N° OF PEOPLE
- 7**: PRES. IDR. MAX. / MAX. HYDR. PRES.
- 8**: BARICENTRO / C.O.G.

Additional information on the plate includes: Via E. Majorana, 2-4 42027 Montecchio Emilia (RE) Italy, CE mark, and a box for COMPRESIVO PESO ATTREZZATURA INCLUDING EQUIPMENT WEIGHT.



Refer to the “Position of identification plates” for finding the position of the plates.

In order to ensure quick and efficient service, always indicate the serial number when ordering spare parts or when requesting technical information or clarifications.

We therefore recommend obtaining the data relative to the accessory in your possession so as to allow sure and quick identification in the future, if necessary.

Equipment code	Serial number	Year	Bearing capacity (Kg)	No of Persons
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

## 4.2.2 Vehicle identification plate

The machine on which you are about to install the basket must be provided with an identification plate that contains all the essential data of the machine and information related to the use of the latter with the man basket installed.

1. Machine name
2. Serial number
3. Type
4. Model:
5. Power (kW)
6. Year of manufacture
7. Max manual force (N)
8. Side inclination
9. Max wind speed (m/s)
10. Inclination
11. Tyres' pressure (Bar)
12. Empty mass (Kg)
13. Hydraulic plant pressure (Ba)
14. Voltage of the electrical plant (V)

The diagram shows a rectangular identification plate with the following fields and callouts:

- 1: Denominazione
- 2: Numero di serie
- 3: Tipo
- 4: Modello
- 5: Potenza (kW)
- 6: Anno di costruzione
- 7: Forza Max manuale (400 N)
- 8: Velocità Max Vento (12,5 m/s)
- 9: Pressione pneumatici (Bar)
- 10: Tensione Imp. Elettrico (V)
- 11: Massa a Vuoto (Kg)
- 12: Press. Imp. Idraulica (Bar)
- 13: Side inclination (1°)
- 14: Inclination (1°)

Additional information on the plate includes the DIECI logo, company address (Via E. Majorana, 2-4, 42027 Montecchio Emilia (RE) Italy), CE mark, and 'Made in Italy' text.



**Refer to the "Identification" chapters of the machine manual for finding the position of the machine identification plates.**

In order to ensure quick and efficient service, always indicate the serial number when ordering spare parts or when requesting technical information or clarifications.

We therefore recommend obtaining the data relative to the accessory in your possession so as to allow sure and quick identification in the future, if necessary.

Equipment code	Serial number	Year	Bearing capacity (Kg)	No of Persons
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

### 4.3 Declared Use

The basket, subject of this document, must not be used for different purposes to those envisioned in this Use and Maintenance Manual.

Respect and strict conformity with the conditions of use, repairs and maintenance, as specified by the Manufacturer, constitute essential elements lying within the declared use.



#### - ATTENTION

**The vehicle or equipment must ONLY be used by trained and qualified staff that is also aware of the information given in the Manual.**

### 4.4 Contraindications for Use

The vehicle or equipment MUST NOT be used:

- For receivers different to those indicated in the "Receivers" chapter
- For uses different to those shown in this manual
- Under environmental conditions different to those indicated in the "Environmental conditions" chapter
- When used on roads, the vehicle must only be driven by persons with a valid driving license in compliance with the Standards in force in the country of use
- Do not use the mobile hydraulic parts of the vehicle to lift persons



#### - WARNING

**For any other use of the vehicle or equipment, different to that stated above, the Manufacturer reserves the faculty to review the conditions of the warranty.**

### 4.5 Declaration of first testing

#### Declaration of manufacturer first testing

**DIECI S.R.L.** declares that every vehicle and piece of equipment produced at its establishments has undergone static and dynamic commissioning before being introduced onto the market, in order to check the good working order and the compliance with all European Directives on this subject.

On conclusion of the same, CE certification is issued, that corresponds to the equipment tested.

Every **DIECI S.R.L.** CE marked product is supplied with the respective certificate, which must be kept by the legitimate owner by law.

### 4.6 Liability

- The vehicles and equipment are manufactured in compliance with CE Directives in force at the time of marketing;
- Failure to comply with the Use and Safety Standards or use of the means when not perfectly efficient, can cause accidents that are liable for prosecution;
- The Manufacturer is not liable for damage/injury caused to objects, persons or animals consequent of incorrect use of the vehicle or unauthorised structural modifications, applications and transformations.
- The Manufacturer also reserves the right to make any modifications to the vehicle for any technical or marketing requirement, without forewarning.

## **4.7 Manufacturer**

### ***DIECI S.R.L.***

Via E. Majorana, 2/4

42027 Montecchio Emilia (RE) ITALY

C.F. 01283560686 P.IVA 01682740350

Tel. +39 0522 869611 - Fax +39 0522 869744

email: [info@dieci.com](mailto:info@dieci.com)

## **4.8 Technical Support Centres**

For any necessity inherent use and maintenance, the Operator must contact the Manufacturer directly, specifying the equipment identification data given on the vehicle itself.

## **4.9 Certification and CE marking**

The vehicle and relative equipment are manufactured in compliance with the European Community Standards pertinent and applicable at the time of its introduction onto the market.

All essential safety and health requisites were analysed during design and manufacture in order to check their applicability and compliance. In the cases where the analysis shown the initial lack of conformity, suitable solutions have been adopted in order to fully satisfy the requisites.

At the side find a fac-simile of the certification attached to the vehicle (Fig. 1-D0103).

# DICHIARAZIONE DI CONFORMITA'



(Direttiva macchine 2006/42/CE, allegato II, parte A)

**Fabbricante** : DIECI SRL

**Indirizzo** : Via E. Majorana, 2-4- 42027 Montecchio Emilia (RE), Italia

**Nome e indirizzo della persona autorizzata a costituire il fascicolo tecnico:** SIG. ENNIO MANGHI  
presso DIECI SRL- Via E. Majorana, 2-4 - 42027 Montecchio Emilia (RE), Italia

## Dichiara che :

Il PLE (Piattaforma di Lavoro Elevabile) Modello **155.21 (PEGASUS 50.21)** Matricola **HLV\*\*\*\*\***

**è conforme a tutte le disposizioni pertinenti delle seguenti Direttive Europee:**

- Direttiva Macchine - **2006/42/CE** in quanto **compreso nell'allegato IV**, ed il cui tipo è stato riconosciuto conforme secondo l'attestato di esame CE n. **M.0303.\*\* \*\*** dal organismo notificato:

**n.0303-ICE Istituto Certificazione Europea S.p.A.**

**Via Garibaldi, 20**

**40011 Anzola dell'Emilia (BO)**

- Direttiva Compatibilità elettromagnetica - **2004/108/CE**
- Direttiva sull'emissione acustica ambientale delle macchine - **2000/14/CE** procedura allegato V

Potenza netta installata : **106 kW**

Livello di potenza sonora misurata:

$L_{WAm}$  = **103 dB<sub>(A)</sub>**

**Livello di potenza sonora garantita:**

$L_{WA}$  = **104 dB<sub>(A)</sub>**.

La macchina è equipaggiata con un cestello **3 persone 300 Kg trilaterale estensibile (120x240/420)** modello **BUD\*\*\*\*** matricola **\*\*\*\***

Targa riportante marcatura CE è applicata sulla macchina.

Montecchio Emilia, **\*/\*\*/xxxx**

**DIECI SRL**

Via E. Majorana, 2-4  
Montecchio Emilia (RE)  
L' Amministratore  
Ennio Manghi





## 4.10 General warnings



### - PROHIBITED

**THE MACHINERY AND EQUIPMENT CANNOT BE MODIFIED WITHOUT THE MANUFACTURER'S AUTHORISATION.**

To guarantee your safety and that of others, do not modify the structure or adjust the various accessory components of the vehicle or equipment. The same holds true for the deactivation or modification of safety devices present.



### - ATTENTION

**Any modification made to the vehicle or accessories will absolve *DIECI S.R.L.* from all liability for damage or injury resulting from such modification.**

**Every machine or equipment comes with a copy of its own manual.**



### - PROHIBITED

**The total or partial reproduction of this manual or any multi-media enclosures is prohibited.**

***DIECI S.R.L.* will protect the ownership rights of these materials.**

A copy of the use and maintenance manual relative to machine parts or equipment of the respective suppliers can be supplied. These manuals are written by the respective product suppliers and reproduced accurately and in full by ***DIECI S.R.L.*** with their specific authorisation: they can be enhanced with further specifications drawn up by ***DIECI S.R.L.***

This Use and Maintenance manual is also provided by the Dealer upon delivery of the vehicle, in order to make sure that these instructions are read and correctly understood.

Should you have trouble understanding any part of this manual, do not hesitate to contact your nearest Dealer for clarification.

All documentation provided constitutes an integral and important part of the product and must always be available to users.

The instructions for use, maintenance and repair described in this handbook must be followed if the vehicle is to be considered as being operated in accordance with the manufacturer's intended uses.

This manual assumes that the health and safety standards in force are complied with in the place of use of the vehicle and of the equipment.



### - ATTENTION

**It is compulsory to read and understand this manual before using the machine or various equipment and to carefully follow the indications therein.**



### - ATTENTION

**It is mandatory to have read and learned the machine manual before reading the manual of the various equipment.**



### - WARNING

**This Use and Maintenance Manual in the user's language, must be carefully stored aboard the vehicle at all times in an accessible and well known place to all users.**

**If the manual becomes creased and/or be, even partially, damaged or illegible or in case of loss of the manual, it must be replaced immediately by contacting the Dieci Technical Assistance Service, giving the details of the manual found in the "Introduction" chapter.**

Local Dealers can supply original spare parts as well as advice and instructions for their installation and use.



### - ATTENTION

**Use only original spare parts when they are required.**

**The use of non-original spare parts may cause damage to other parts of the vehicle. Customers are advised to purchase all original spare parts required only from an authorised Agent or Dealer.**

***DIECI S.R.L.* does not consider itself liable for damage deriving from the use of non-original spare parts**

**- ATTENTION**

Should the vehicle be destined for use in particularly severe conditions (for example in dusty environments or worksites, on argillaceous or muddy terrain), we advise consulting your nearest dealer for specific instructions. Failure to observe these instructions may result in the vehicle's guarantee being voided.

**- ATTENTION**

Improper, incorrect, or irrational use of the vehicle or the accessories with which it is equipped as well as modification to its physical structure or functioning is prohibited. A different use is strictly prohibited and relieves *DIECI S.R.L.* from responsibility for damage caused to persons, things or animals.

**- WARNING**

*DIECI S.R.L.* is not liable for damage caused by negligent use of this vehicle or the accessory even if said damage is not a result of intentional improper use. Everything possible has been done during the design and construction phases of vehicles and accessories to make your job as safe as possible. Due caution, however, is indispensable and there is no better rule to prevent accidents.

**- ATTENTION**

*DIECI S.R.L.* is not liable for damage resulting from operations performed instinctively, as a reflex, while in a state of panic, or in the event of malfunctioning, accidents or anomaly, during use of the vehicle.

The instructions for use, maintenance and repair described in this handbook must be followed if the vehicle is to be considered as being operated in accordance with the manufacturer's intended uses.

**- ATTENTION**

*DIECI S.R.L.* reserves the right to carry out possible modifications to the vehicle or accessories for technical or commercial reasons without prior notice.

**- ATTENTION**

To correctly use the components and machine controls recalled in the following pages, refer to the specific use and maintenance manual of the machine.

**- ATTENTION**

Do not modify the structure or adjust the safety devices of the various tool components.

**- ATTENTION**

Only CE equipment certified by the relative manufacturer and approved can be used on *DIECI* machines or that falling within the technical limits set out by *DIECI S.R.L.*

The interchangeable equipment manufacturer must guarantee that the combination of such equipment and the basic machine on which the equipment is intended for, meets all the basic health and safety requirements, providing an adequate evaluation procedure of compliance.

*DIECI S.R.L.* liability shall not be involved if equipment use or modifications do not comply with the above mentioned requirements.

**- ATTENTION**

Before commissioning each accessory, ensure compatibility with the vehicle and calibration of the safety system relating to the used accessory.

**- ATTENTION**

Routine maintenance should be carried out regularly, keeping a record of the vehicle's working hours.

**- ATTENTION**

The right and left positions indicated in this manual refer to the view of the operator sitting in the driver's seat (looking forwards).



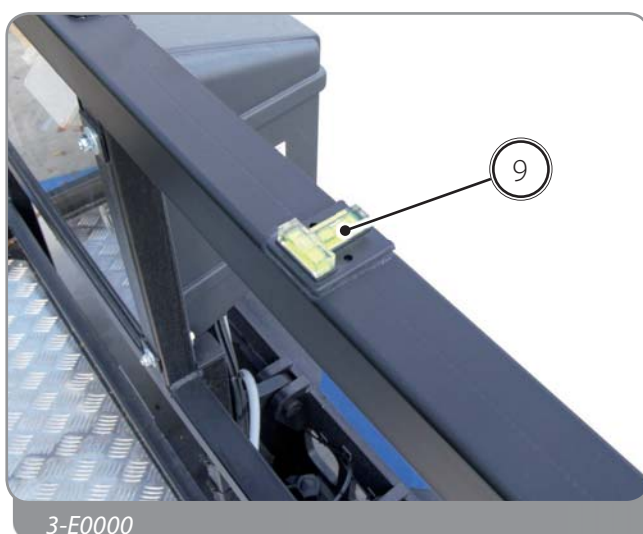


## 5 DESCRIPTION

### 5.1 Main components

The accessory consists of the following main components:

- **Walkable surface:** (Fig. 1-E0000, pos. 1) support surface for the personnel
- **Control consoles:** (Fig. 1-E0000, pos. 2) controls that allow the operator to command the basket movements and stop the machine
- **Control unit:** (Fig. 1-E0000, pos. 3) it controls the position of the basket and all safety devices
- **Overload pilot light:** (Fig. 1-E0000, pos. 4) pilot light that turns off when the allowed work limits are reached
- **Step:** (Fig. 2-E0000, pos. 5) it facilitates the basket ascent/descent operations
- **Door:** (Fig. 2-E0000, pos. 6) it provides access to the basket
- **Counter-plate:** (Fig. 2-E0000, pos. 7) structure used for fastening the basket to the machine
- **Micro switch for detecting the locking pins:** (Fig. 2-E0000, pos. 8) it checks if the safety pins are properly fastened
- **Spirit level:** (Fig. 3-E0000, pos. 9) it allows the operator to check the basket inclination



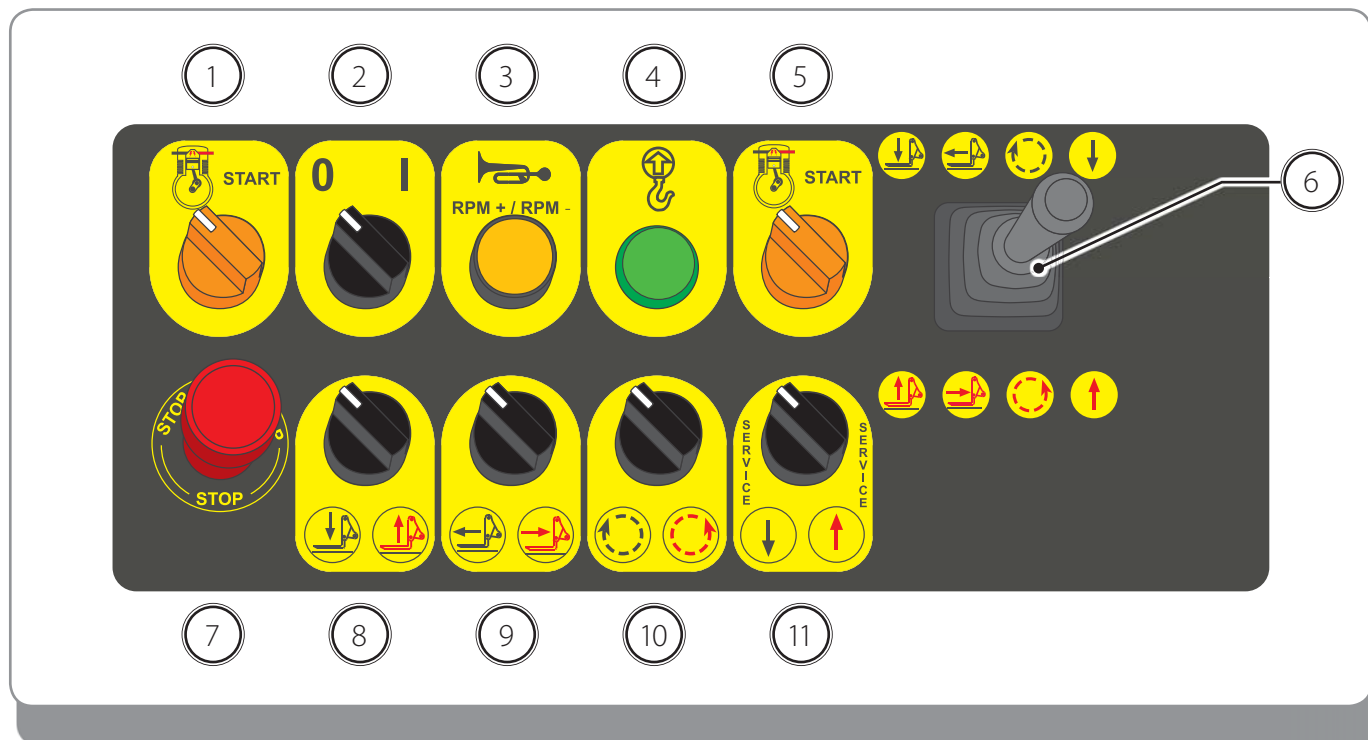
- **Rotation module:** (Fig. 4-E0000, pos. 10) it allows the operator to rotate the basket (for three-sided baskets only)
- **Basket extension:** (Fig. 4-E0000, pos. 11) it allows the operator to extend the basket surface; it can be operated hydraulically or manually (for extendable baskets only)
- **Protection for tunnels:** (Fig. 5-E0000, pos. 12) It protects the operator from any falling objects or crushing against walls or other objects (for tunnel baskets only)



5- E0000

## 5.2 Push-button panel

### 5.2.1 Basket push-button panel for proportional distributor

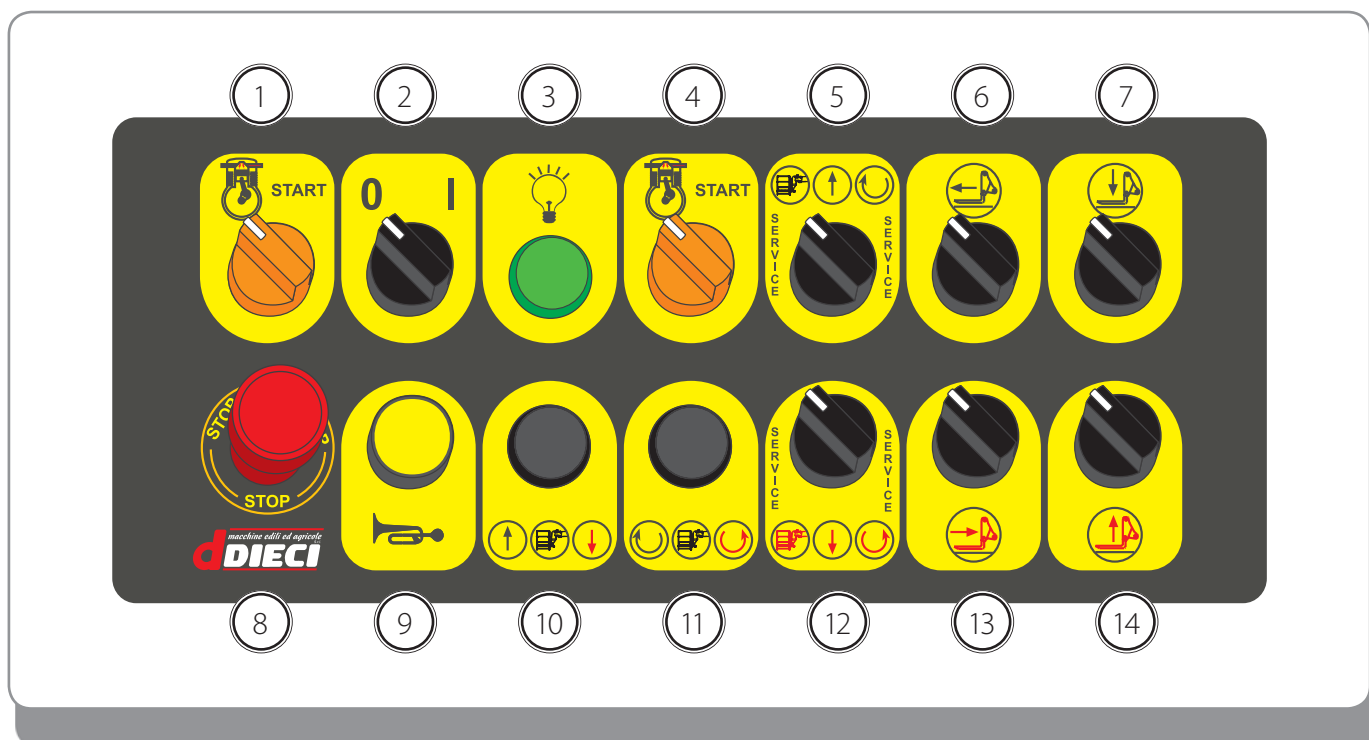


1	Engine start-up
2	Enabling controls from basket
3	Acoustic signalling device / Electronic accelerator
4	Work area pilot light
5	Engine start-up
6	Joystick

7	Emergency stop push-button
8	Boom ascent/descent
9	Boom extension/retraction
10	Turret rotation (on Pegasus model only)
11	Services / Basket extension / Basket rotation (optional)



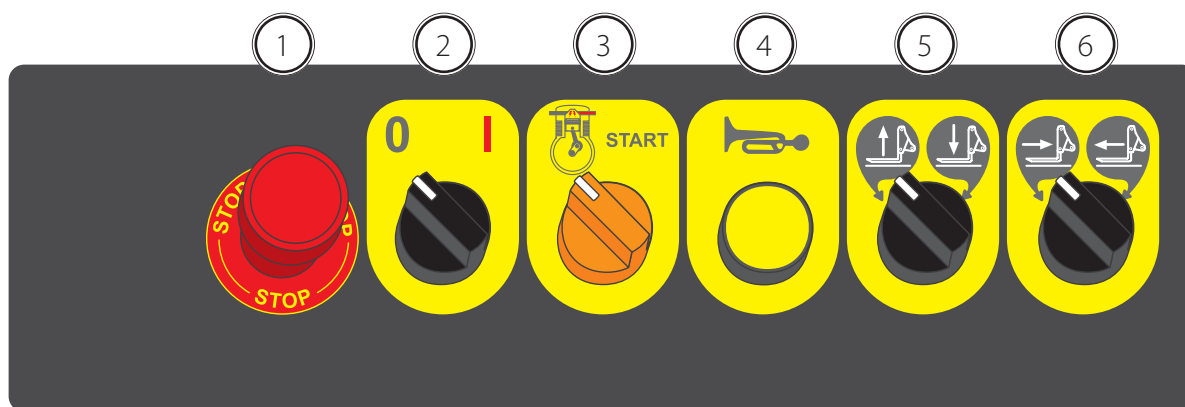
## 5.2.2 Basket push-button panel for distributor ON-OFF



1	Engine start-up
2	Enabling controls from basket
3	Work area pilot light
4	Engine start-up
5	Services / Basket extension / Basket rotation (optional)
6	Boom extension
7	Boom descent

8	Emergency stop push-button
9	Acoustic signalling device
10	Not used
11	Not used
12	Services / Basket extension / Basket rotation (optional)
13	Boom retraction
14	Boom ascent

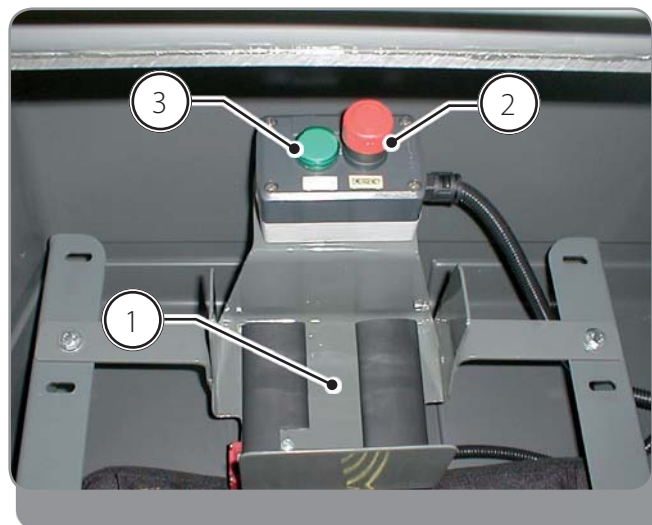
### 5.2.3 Push-button panel of aluminium baskets



1	Emergency stop push-button
2	Enabling controls from basket
3	Engine start-up
4	Acoustic signalling device
5	Boom Ascent/Descent
6	Boom Extension/Retraction

#### 5.2.4 *Basket push-button panel with radio control*

- |   |                          |
|---|--------------------------|
| 1 | Radio control connection |
| 2 | Emergency stop button    |
| 3 | Work area pilot light    |



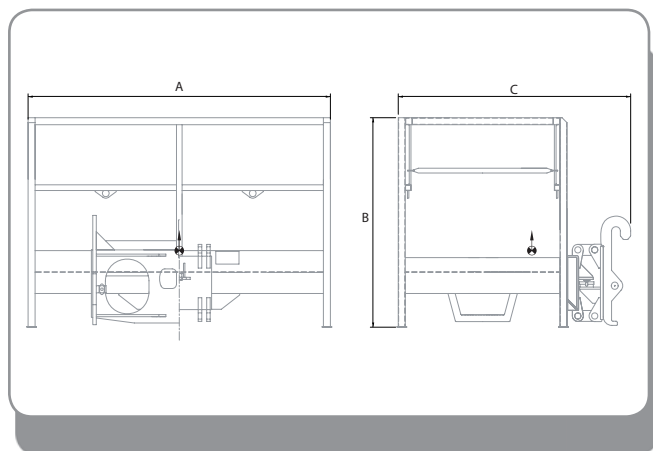
#### 5.2.5 *Push-button panel of tunnel baskets*

- |   |  |
|---|--|
| 1 | Reset push-button                      |
| 2 | Push Button Panel (see previous pages) |



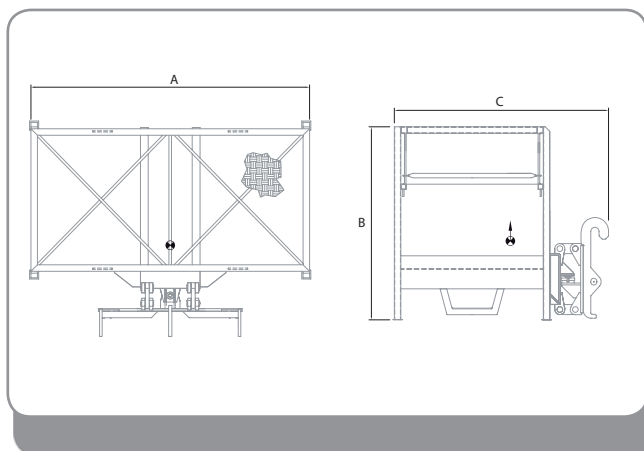
## 5.3 Technical specifications

### 5.3.1 Basket metallic structure data (without electrical equipment)



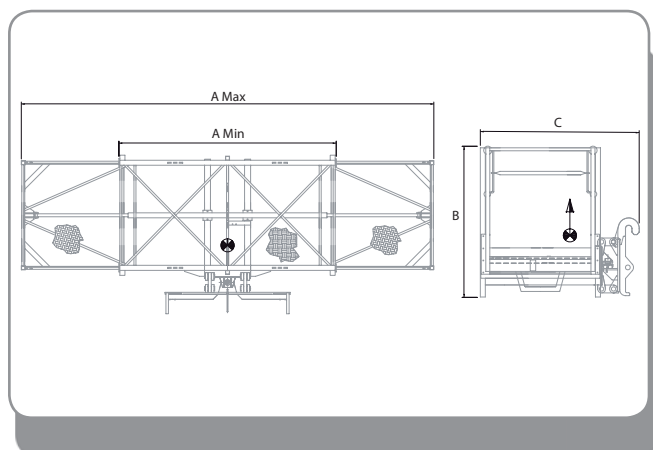
**Front basket**

Code	BUD6220/1
A (mm)	2150
B (mm)	1490
C (mm)	1663
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	405
Barycentre (mm)	598



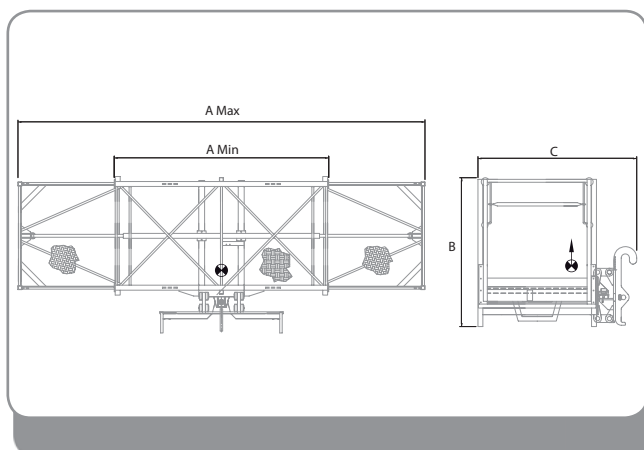
**Front basket**

Code	BUD6223/1
A (mm)	2150
B (mm)	1490
C (mm)	1653
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	405
Barycentre (mm)	598



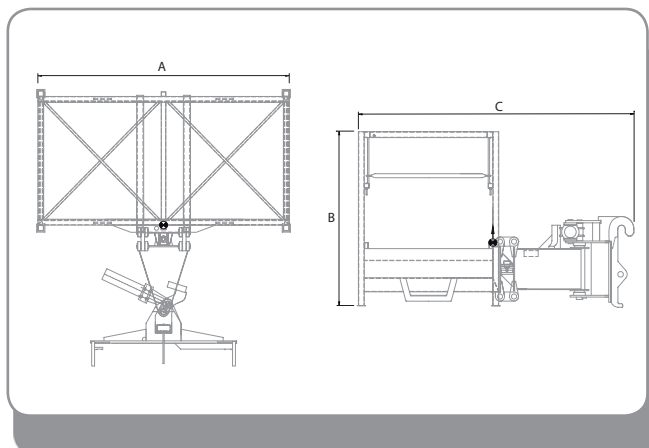
**Front extendable basket**

Code	BUD6225/1
A Min (mm)	2410
A Max (mm)	4120
B (mm)	1490
C (mm)	1587
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	525
Barycentre (mm)	587



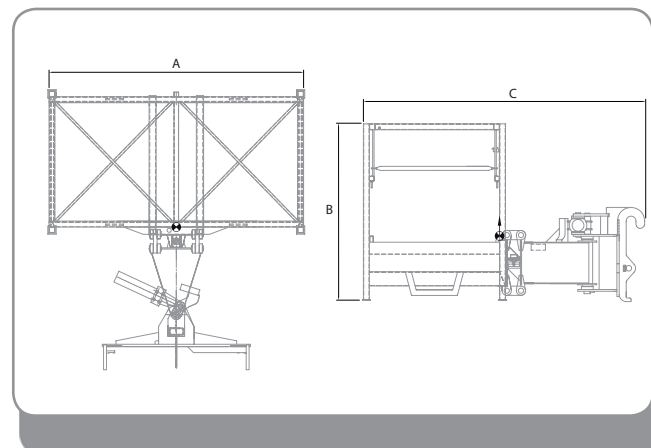
**Front extendable basket**

Code	BUD6228/1
A Min (mm)	2410
A Max (mm)	4120
B (mm)	1490
C (mm)	1607
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	525
Barycentre (mm)	547



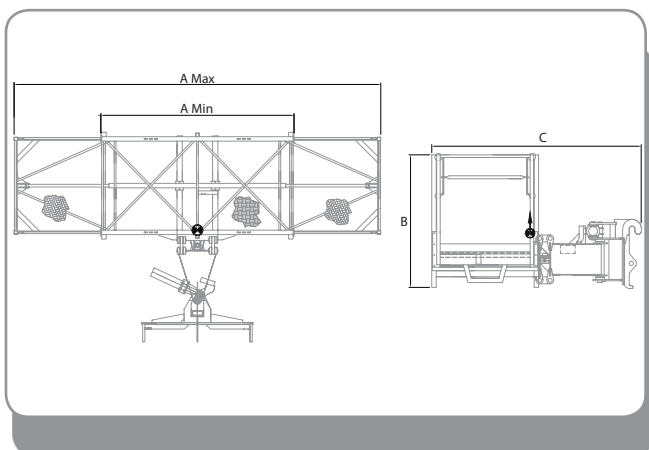
### Three-sided basket

Code	BUD6230/1
A (mm)	2150
B (mm)	1490
C (mm)	2357
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	550
Barycentre (mm)	1101



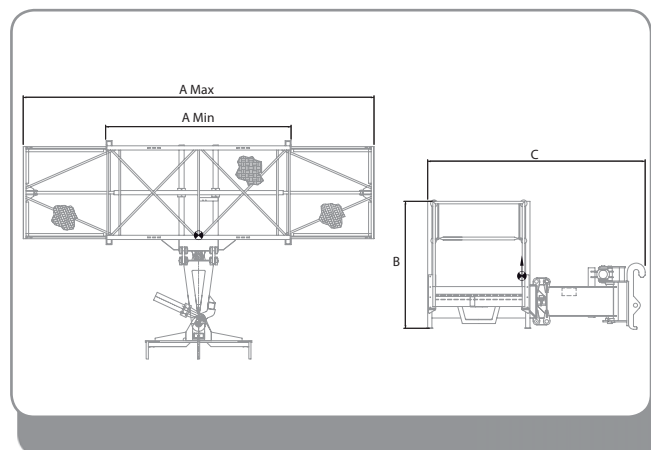
### Three-sided basket

Code	BUD6233/1
A (mm)	2150
B (mm)	1490
C (mm)	2373
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	550
Barycentre (mm)	1111



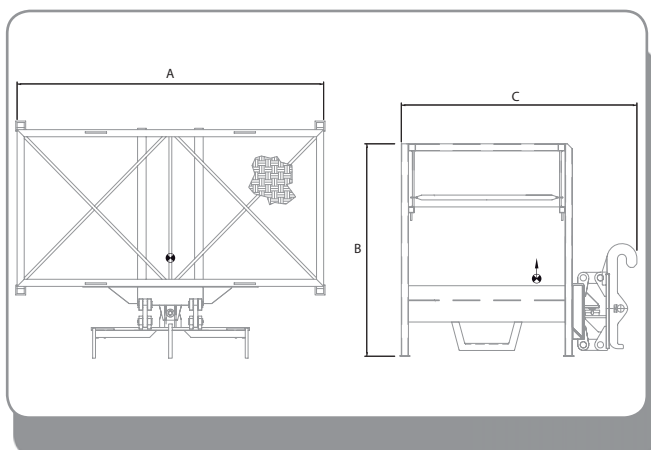
### Three-sided extendable

Code	BUD6235/1
A Min (mm)	2410
A Max (mm)	4120
B (mm)	1490
C (mm)	2354
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	685
Barycentre (mm)	1146



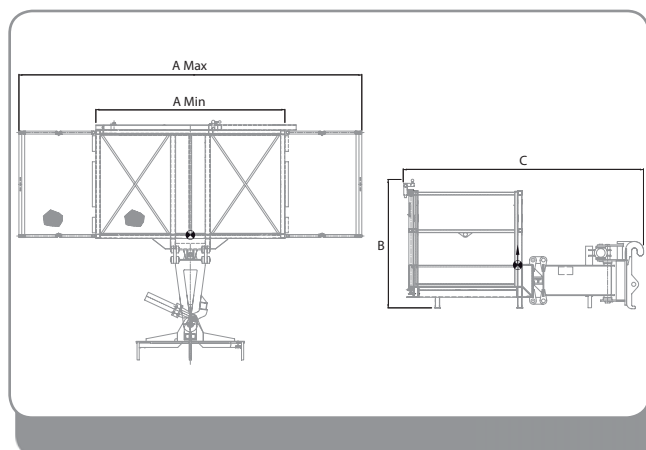
### Three-sided extendable

Code	BUD6237/1
A Min (mm)	2400
A Max (mm)	4116
B (mm)	1409
C (mm)	2550
Bearing capacity (Kg)	800
No of Persons	3
Weight (Kg)	985
Barycentre (mm)	1342



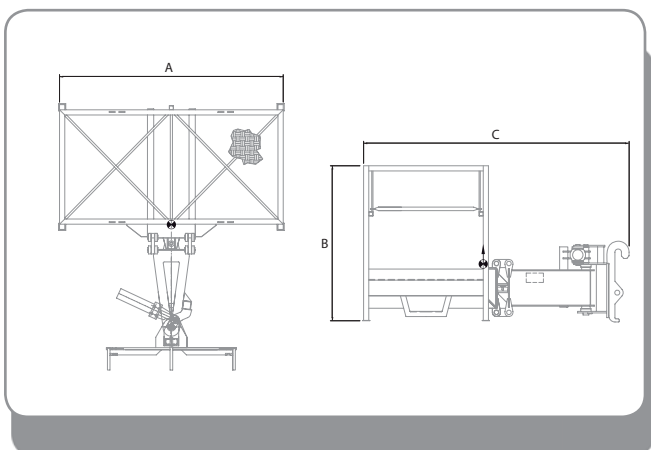
### Front basket

Code	BUD6245/1
A (mm)	2150
B (mm)	1490
C (mm)	1653
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	405
Barycentre (mm)	598



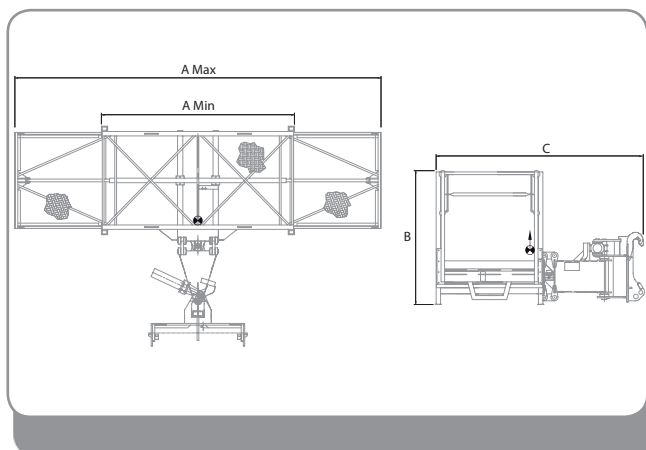
### Three-sided extendable

Code	BUD6248/1
A Min (mm)	2450
A Max (mm)	3960
B (mm)	1482
C (mm)	2766
Bearing capacity (Kg)	500
No of Persons	2
Weight (Kg)	935
Barycentre (mm)	1347



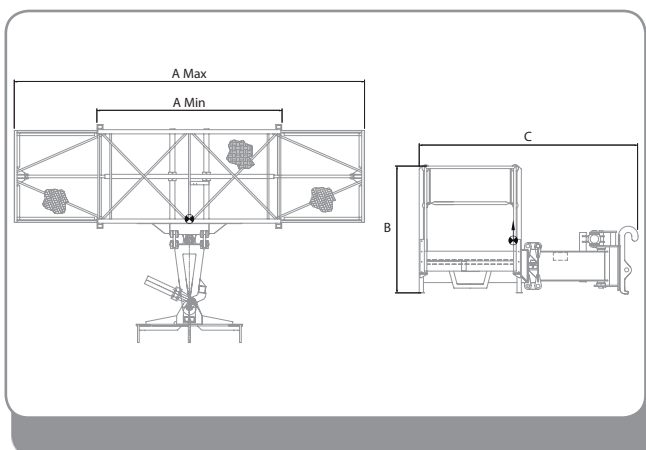
### Three-sided basket

Code	BUD6270/1
A (mm)	2150
B (mm)	1490
C (mm)	2552
Bearing capacity (Kg)	1000
No of Persons	3
Weight (Kg)	700
Barycentre (mm)	1297



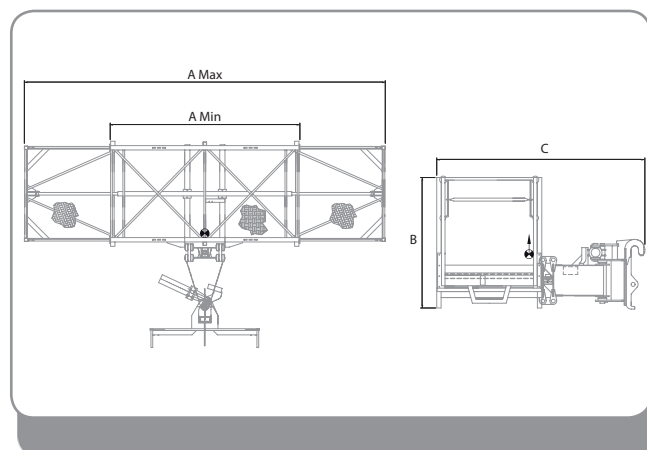
### Three-sided extendable

Code	BUD6272/1
A Min (mm)	2410
A Max (mm)	4120
B (mm)	1487
C (mm)	2341
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	685
Barycentre (mm)	1190



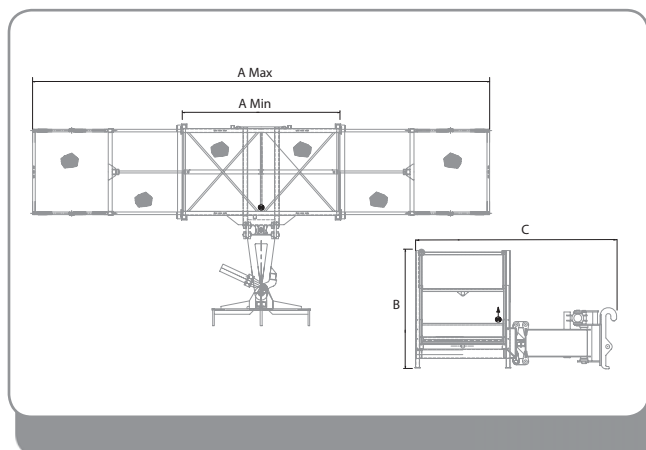
### Three-sided extendable

Code	BUD6278/1
A Min (mm)	2400
A Max (mm)	4116
B (mm)	1490
C (mm)	2572
Bearing capacity (Kg)	800
No of Persons	3
Weight (Kg)	985
Barycentre (mm)	1352



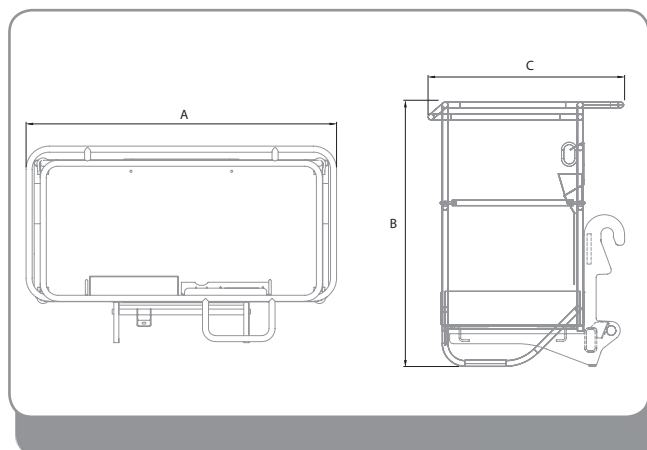
### Three-sided extendable

Code	BUD6291/1
A Min (mm)	2410
A Max (mm)	4120
B (mm)	1490
C (mm)	2376
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	685
Barycentre (mm)	1206



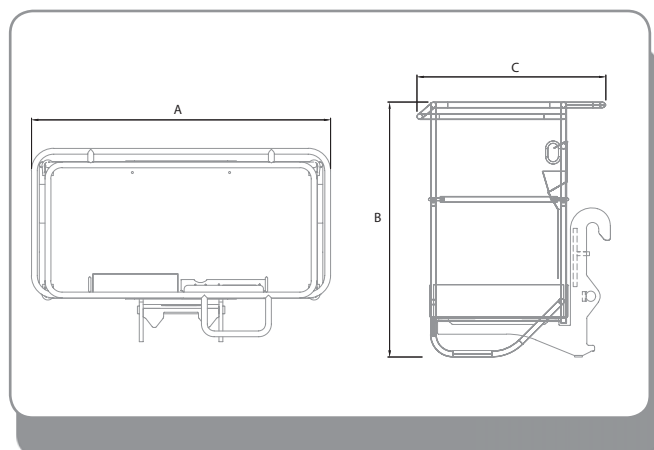
### Three-sided extendable

Code	BUD6296/1
A Min (mm)	2470
A Max (mm)	5800
B (mm)	1490
C (mm)	2552
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	1165
Barycentre (mm)	1397



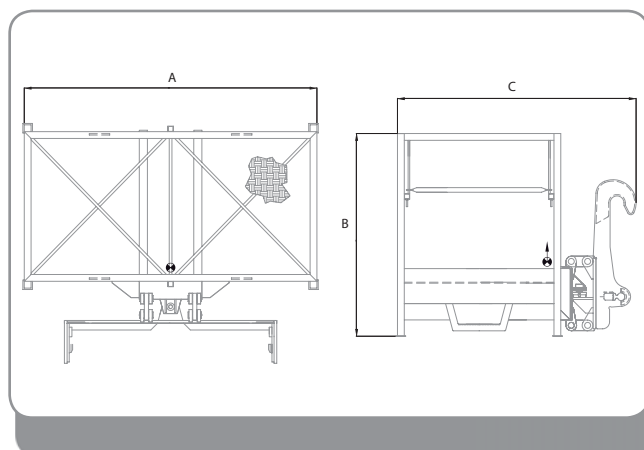
### Front basket

Code	BUD6341
A (mm)	1540
B (mm)	1313
C (mm)	975
Bearing capacity (Kg)	200
No of Persons	2
Weight (Kg)	125
Barycentre (mm)	135



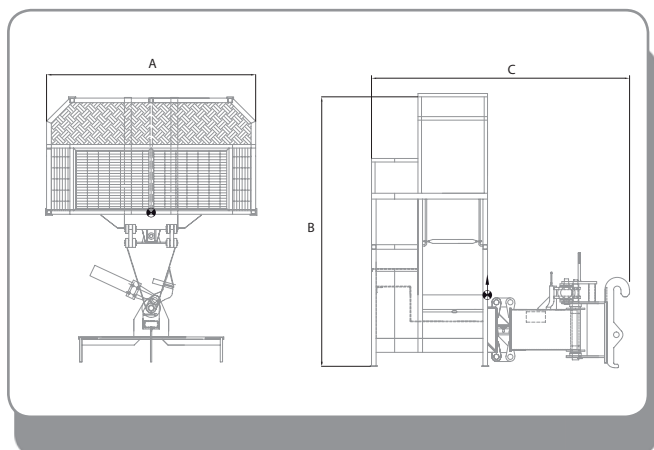
### Front basket

Code	BUD6342
A (mm)	1540
B (mm)	1313
C (mm)	995
Bearing capacity (Kg)	200
No of Persons	2
Weight (Kg)	110
Barycentre (mm)	149



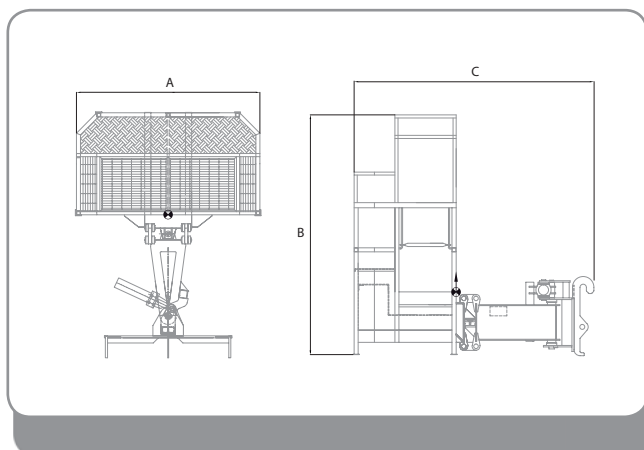
### Front basket

Code	BUD6353/1
A (mm)	2150
B (mm)	1490
C (mm)	1753
Bearing capacity (Kg)	1000
No of Persons	3
Weight (Kg)	537
Barycentre (mm)	513



### Front basket extendable

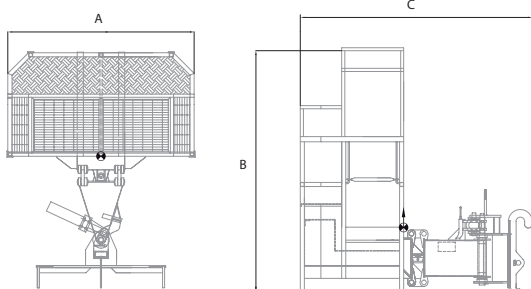
Code	BUD6365/1
A (mm)	1800
B (mm)	2350
C (mm)	2223
Bearing capacity (Kg)	300
No of Persons	2
Weight (Kg)	775
Barycentre (mm)	1117



### Front basket extendable

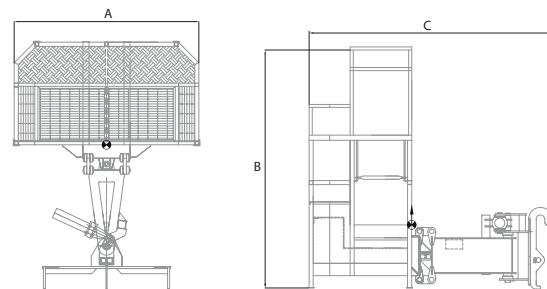
Code	BUD6366/1
A (mm)	1800
B (mm)	2350
C (mm)	2352
Bearing capacity (Kg)	800
No of Persons	2
Weight (Kg)	845
Barycentre (mm)	1247





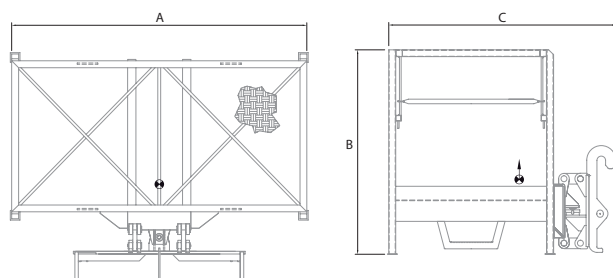
### Front basket extendable

Code	BUD6371/1
A (mm)	1800
B (mm)	2350
C (mm)	2242
Bearing capacity (Kg)	300
No of Persons	2
Weight (Kg)	775
Barycentre (mm)	1127



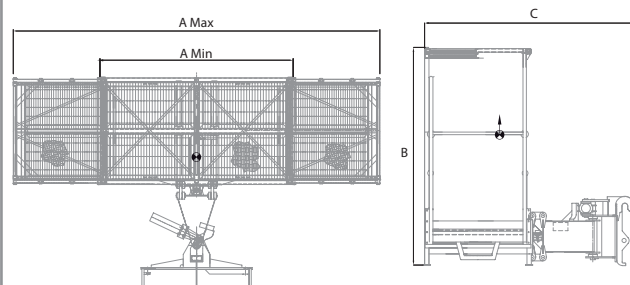
### Front basket extendable

Code	BUD6373/1
A (mm)	1800
B (mm)	2350
C (mm)	2370
Bearing capacity (Kg)	800
No of Persons	2
Weight (Kg)	845
Barycentre (mm)	1257



### Front basket

Code	BUD6389/1
A (mm)	2150
B (mm)	1490
C (mm)	1650
Bearing capacity (Kg)	300
No of Persons	3
Weight (Kg)	415
Barycentre (mm)	598



### Three-sided basket extendable

Code	BUD6390-1
A Min (mm)	2407
A Max (mm)	4120
B (mm)	2445
C (mm)	2356
Bearing capacity (Kg)	400
No of Persons	3
Weight (Kg)	1185
Barycentre (mm)	1408

### 5.3.2 Declaration of vibration emission



For all details regarding the vibrations emitted by the vehicle on which the equipment is installed, refer to the specific Use and Maintenance Manual of the same.

### 5.3.3 Sound emissions



For all details regarding the noise level emitted by the vehicle on which the equipment is installed, refer to the specific Use and Maintenance Manual of the same.

### 5.3.4 Electromagnetic interference

The equipment has been designed to operate correctly in an industrial-type electromagnetic environment, complying with the emission and immunity limits envisioned and requested.



For further details, refer to the Use and Maintenance Manual of the vehicle on which the equipment has been installed.

### 5.3.5 Radiation

In conditions of normal use, the equipment subject of this Use and Maintenance Manual, does not produce any type of ionising or non-ionising radiation, which may cause problems for the operator.

### 5.3.6 Environmental conditions

In spite of the fact that the equipment can be used in many different situations, it is necessary to respect the minimal operational norms, as stated below:

Parameter	Values allowed
Operating temperature	From - 5 °C to + 40 °C
Average daily temperature	< 40°C
Storage temperature	From - 15 °C to + 50 °C
Humidity	From 20% to 95%
Altitude	< 1,500 m



#### - PROHIBITION

It is prohibited to use the equipment in environments that are:

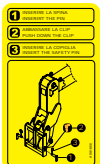






- Dusty
- In corrosive atmosphere
- with fire risk
- In explosive atmosphere

For further details, refer to the Use and Maintenance Manual of the vehicle on which the equipment has been installed.

## 5.4 Safety decals

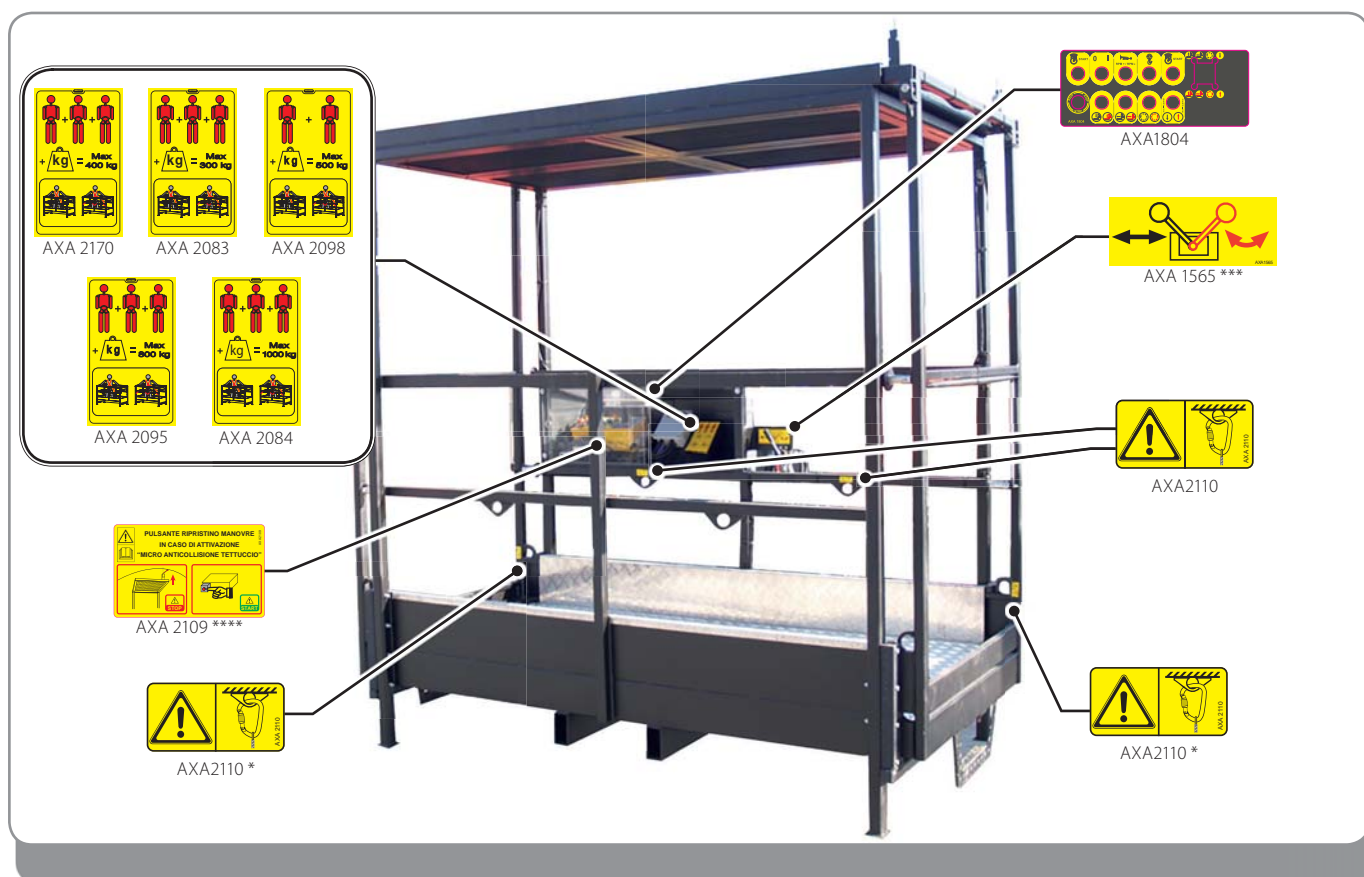
### 5.4.1 Front, three-sided, extendable baskets for tunnels



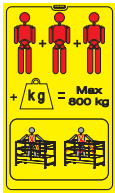
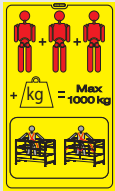



DECAL	CODE	DESCRIPTION
	AXA 1800	It indicates the operations for fastening the equipment to the machine plate
	AXA 2082 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 300 Kg - 3 persons
	AXA 2169 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 400 Kg - 4 persons
	AXA 2094 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 500 Kg - 2 persons
	AXA 2091 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 800 Kg - 3 persons
	AXA 2085 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 1000 Kg - 3 persons
	AXA 2110	It indicates the positions for fastening the safety harnesses

\* Second model of basket

\*\* Additional labels for extendable basket



DECAL	CODE	DESCRIPTION
	AXA 1804	Push-button panel controls indication
	AXA 2083 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 300 Kg - 3 persons
	AXA 2170 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 400 Kg - 4 persons
	AXA 2098 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 500 Kg - 2 persons

DECAL	CODE	DESCRIPTION
	AXA 2095 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 800 Kg - 3 persons
	AXA 2084 *	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 1000 Kg - 3 persons
	AXA 2110	It indicates the positions for fastening the safety harnesses
	AXA 1565	It indicates the operations for fastening the equipment to the machine plate
	AXA 2109	It indicates the operations for restoring the basket operation if it gets blocked

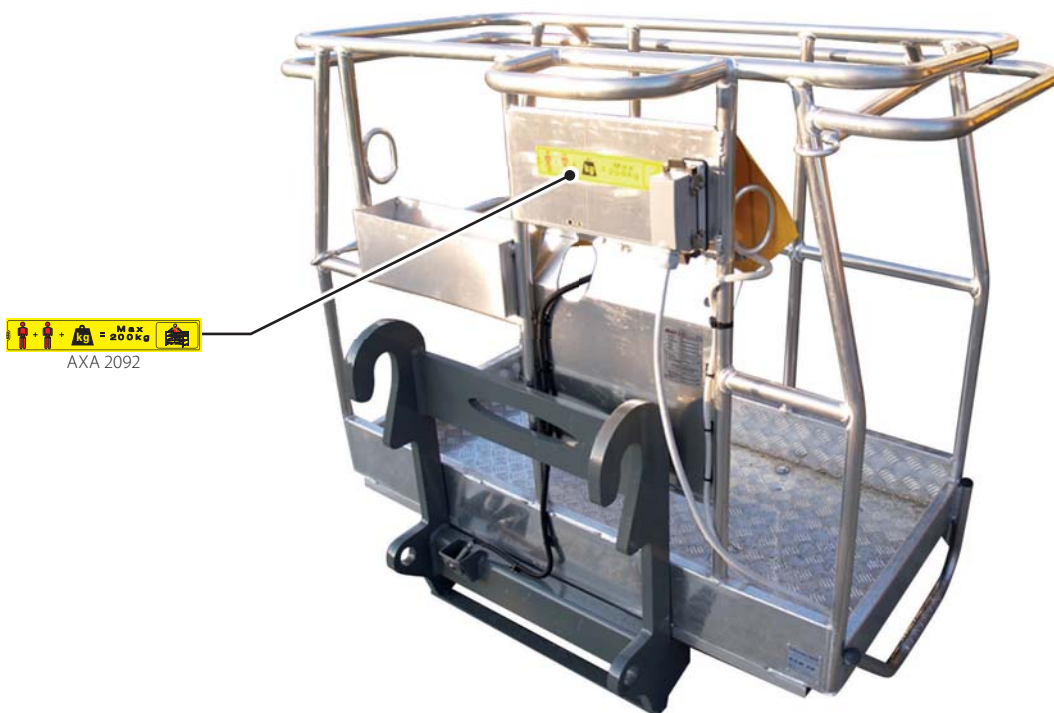
\* Second model of basket

\*\* Additional decals for extendable basket

\*\*\* Additional decals for three-sided basket

\*\*\*\* Additional decals for tunnel basket

#### 5.4.2 Baskets in aluminium



AXA 2092

DECAL	CODE	DESCRIPTION
	AXA 2092	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 200 Kg - 2 persons



DECAL	CODE	DESCRIPTION
	AXA 2092	It indicates the maximum bearing capacity of the basket and the number of persons allowed. 200 Kg - 2 persons
	AXA 2110	It indicates the positions for fastening the safety harnesses





## 5.5 Safety devices

In addition to the safety devices installed on the Telehandler, the man Basket is supplied with further safety devices:



### - ATTENTION

Before proceeding with the persons lifting operations, it is mandatory to check the efficiency of the safety devices.

### 5.5.1 Emergency button

It is located on the right side of platform controls (Fig. 1-F0100) and it stops the engine and all machine and basket movements

### 5.5.2 Fastening the safety belts/harnesses

The safety belts/harnesses must be fastened to the connections provided on the basket (Fig. 2-F0100)



### - ATTENTION

It is not allowed to use other fastening points than those indicated by the manufacturer



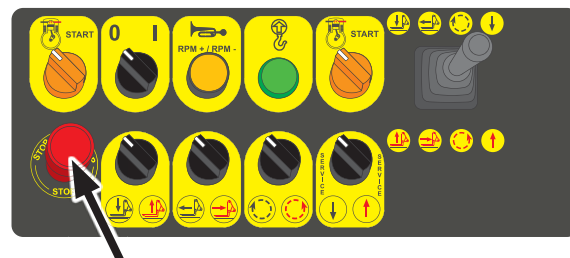
### - WARNING

Each fastening point is signalled by a special label.

### 5.5.3 Micro switch for detecting the locking pins

On the basket plate are present one or two pin presence micro switches (Fig. 3-F0100). The micro switches signal the presence of pins correctly connected inside the plate. The basket controls are disabled if the two pins are not connected correctly.

The control unit signals the fault via an acoustic signal and the operation enablement pilot light.



1-F0100



2-F0100



3-F0100

#### 5.5.4 Load limiter \*

**\* The load limiters are not provided on the aluminium baskets with the codes BUD6341 and BUD6342 in compliance with UNI EN 280:2005 Directive.**

The load limiter (Fig. 4-F0100) blocks the boom movement in the event of overload, and it also enables an acoustic signal and prevents any movement of the push-button panel. In order to exit this alarm condition, you must bring the load inside the basket within the limits set by the Manufacturer.



##### - ATTENTION

**For the baskets that do not require a load limiter, the operator must ensure that the maximum allowed load will not be exceeded.**



##### - DANGER

**Do not under any circumstance exceed the maximum allowed load**

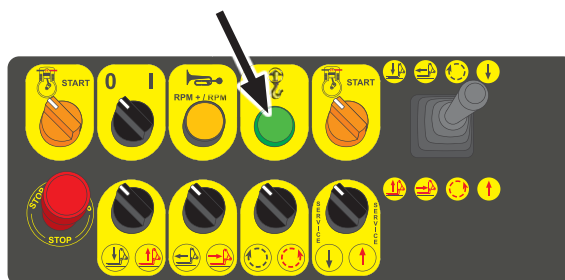


4-F0100

#### 5.5.5 Area limiter

This device (Fig. 5-F0100) limits the boom extension according to the angle thus defining the basket operating area (see the bearing-capacity diagrams given at the end of the manual).

The area limiter consists of an electronic device connected to an angle/extension sensor. The basket, provided with a classical push-button panel or a radio control support, is equipped with a green pilot light that signals the position of the basket within the work area. After the limits of this area have been reached, the pilot light turns off and the movements that may be dangerous for that position, are stopped automatically.



5-F0100

#### 5.5.6 Emergency pump

If there is no driving force, the boom can be extended and retracted by means of the pump located on the rear side of the machine (Fig. 6-F0100); to carry out this operation, proceed as described in the "Emergency procedures" section of this manual.



6-F0100

### 5.5.7 *Bumper \**

**\* This device is installed only on tunnel baskets**

The bumper (Fig. 7-F0100) protects the operator from bumping into structures and from falling objects or materials when he/she operates in closed spaces.

### 5.5.8 *Anti-crush limit switch \**

**\* This device is installed only on tunnel baskets**

The anti-crush limit switch sensors (Fig. 8-F0100) disable the boom and basket movements if the equipment bumps into structures or objects.

In order to enable the movements again, you must use the reset push-button.

### 5.5.9 *Front infeed micro switch closed \**

**\* This device is installed only on baskets with front opening**

The baskets with front opening are equipped with a micro switch (Fig. 9-F0100) that prevents the basket from moving when the door is open or close incorrectly or partially. When the access door is closed incorrectly, the controls from the basket are disabled and the latter cannot perform any movement. The basket control unit signals the "fault" via an acoustic signal and the operation enablement pilot light.



7-F0100



8-F0100



9-F0100



## 5.6 Capacity diagrams

The Safe Working Load (SWL) of these vehicles depends on the extension and angle of the boom.

The capacity diagrams indicate the maximum height and extension admitted with given equipment and loads to be able to work in safe conditions, without risk of the vehicle overturning during work operations.

This vehicle is equipped with an anti-tipping device that controls the state of the load and the risk of the vehicle overturning, in real time (see "Anti-tipping device" chapter). However, it is necessary to use and respect the capacity diagrams in relation to the load and type of used accessory.



### - ATTENTION

It is compulsory to have the capacity diagram of the equipment and the vehicle being used, inside the cab. Consult the correct capacity diagram before moving a load.



### - PROHIBITED

Do not lift or extend the boom when the vehicle is in motion. Lower and completely retract the boom before moving a load.



### - ATTENTION

The load diagram refers to the vehicle being still and levelled.



### - WARNING

Consult the "Safe work procedure" chapter before moving a load.



### - ATTENTION

It is compulsory to know the weight of the load to be moved.



### - ATTENTION

Locate the centre of gravity of the load to be moved. The centre of gravity may not be in the centre of the load.

### 5.6.1 Read the capacity diagrams

- **Name and model of the vehicle** (Fig. 4-F0300, pos. 1)

- **Equipment model** (Fig. 4-F0300, pos. 2)

For additional information, consult the "Capacity diagrams key" chapter.

- **Code of the Capacity diagram** (Fig. 4-F0300, pos. 3)

- **Maximum capacity of the equipment** (Fig. 4-F0300, pos. 4)

The maximum capacity of the equipment is also marked by the relative sticker on the equipment itself (Fig. 1-F0300).

- **Boom angle** (Fig. 4-F0300, pos. 5)

The angle of the boom is indicated via inclinometer on the left side, at the end of the boom (Fig. 2-F0300) or on the display of the anti-tipping device (if present).

- **Boom extension** (Fig. 4-F0300, pos. 6)

The boom extension is marked with the alphabet letters ("A", "B", "C", "D", etc.). The same letters are reported on stickers on the boom extension, so that the user in the cab knows the boom extension by reading the letters on it (Fig. 3-F0300).

- **Vehicle operating mode** (Fig. 4-F0300, pos. 7)

For additional information, consult the "Capacity diagrams key" chapter.

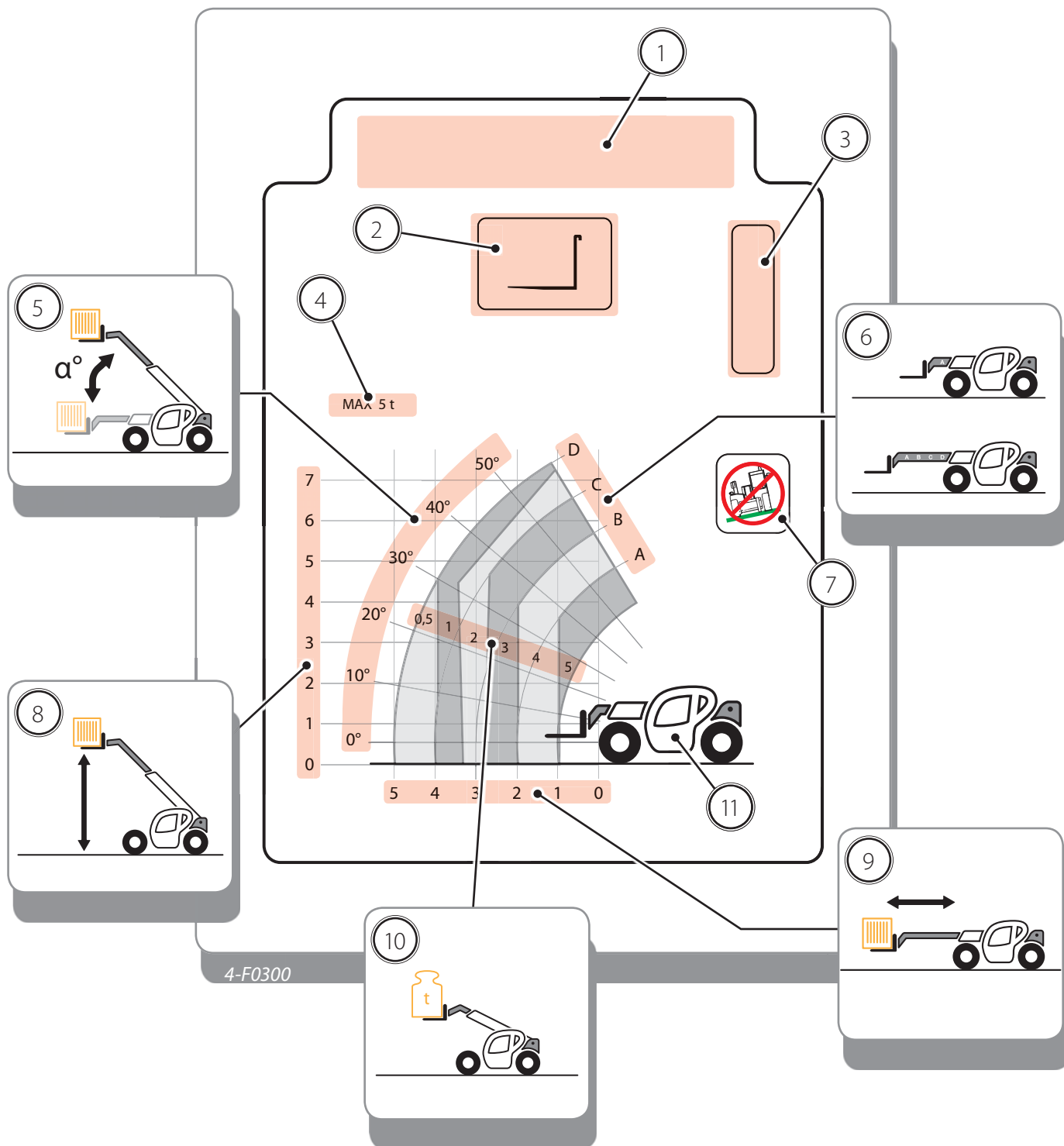
- **Load height from the ground** (Fig. 4-F0300, pos. 8)

- **Horizontal distance of the load from the vehicle** (Fig. 4-F0300, pos. 9)

- **Weight of the load** (Fig. 4-F0300, pos. 10)

- **Position of the vehicle** (Fig. 4-F0300, pos. 11)





## 5.6.2 Using the capacity diagrams

The Capacity diagrams indicate the areas in which it is possible to work with the vehicle and load in safe conditions.



### - DANGER

**To operate the vehicle without respecting the Capacity diagrams of the equipment installed can lead to dangerous situations, to overturning limit and to the operating of the anti-tipping device.**

The entire work area of the boom is split into the following areas (Fig. 5-F0300, pos. 1). A maximum capacity corresponds to each area. The area closest to the vehicle will have the same capacity as the vehicle's maximum load capacity; the area's maximum capacity decreases the further away one moves from the vehicle.

Before operating make sure to know:

- Weight of the load
- Height from ground at which to move the load
- Distance from vehicle at which to move the load

Identify the capacity diagram area showing a value just above that of the weight of the load to be moved; e.g. if the load weighs 1.5 t, the area of reference will be that having maximum capacity of 2 t (Fig. 5-F0300, pos. 1).

By knowing the area we will know:

- the vertical and horizontal distance at which to move the load
- the boom extension values and angle at which it is possible to operate.

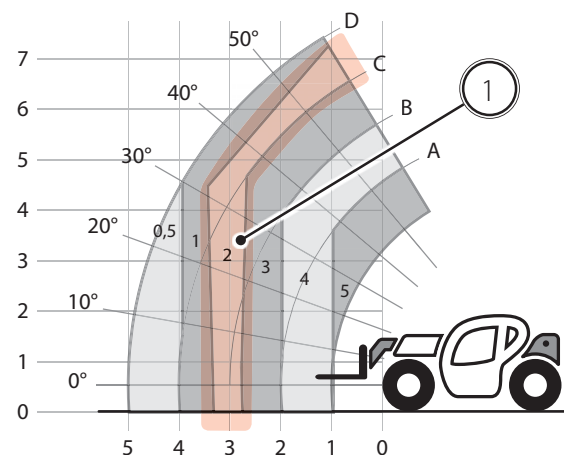
To know the vertical and horizontal distance we can move the load at, use the horizontal and vertical lines crossing the area of reference; e.g. we can bring the load at a distance of 3 m from the vehicle and at 4 m high, while remaining in safe conditions (Fig. 6-F0300, pos. 2).

To avoid operating in danger of overturning conditions, use the boom extension and angle indications. For example, we could operate with the boom extended to letter C at an angle of 30° (Fig. 7-F0300, pos. 3).

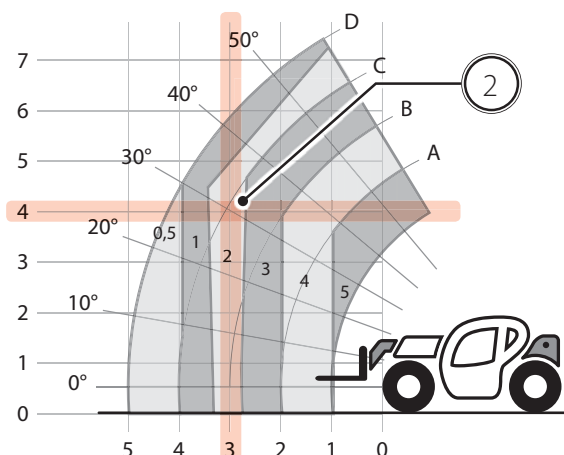


### - ATTENTION

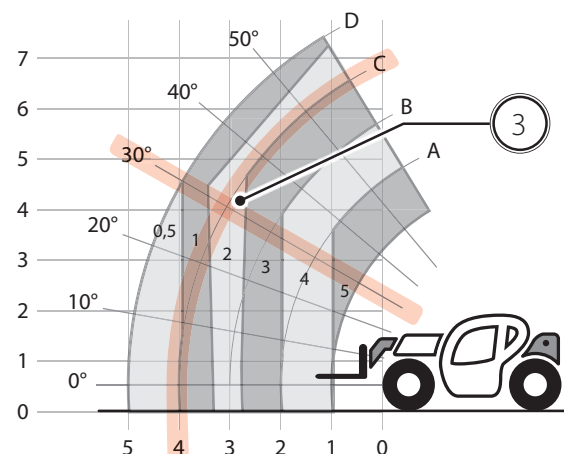
**By bringing the load over the admitted area, we would enter danger of overturning conditions and the anti-tipping device will start operating, blocking all movements considered harmful for the stability of the mean and of the load.**



5-F0300



6-F0300



7-F0300





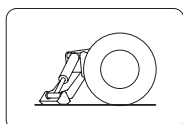
### - ATTENTION

Use the capacity diagrams every time the load is moved to determine the safe work area.

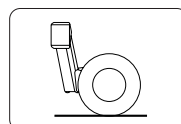
It is possible to start operating only in safe conditions and if within the pre-determined safe work area.

## 5.6.3 *Legenda Capacity diagrams key*

### Vehicle positions



Lowered stabilizers



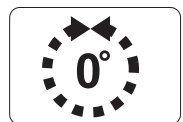
Raised stabilizers



Continuous rotation



Non-continuous rotation



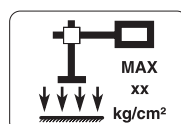
Front position



Do not work on tyres

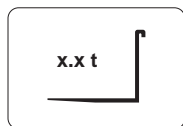


Do not manoeuvre if the machine is not level

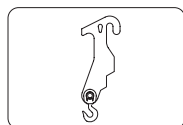


Maximum admitted force on the ground

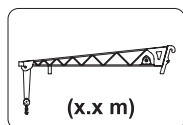
## Installed equipment



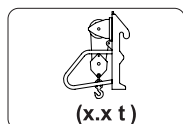
Pair of forks (capacity)



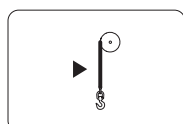
Hook for fork carriage



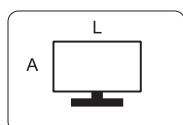
Crane extension (Measurements)



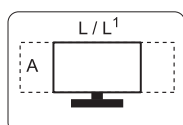
Winch (Capacity)



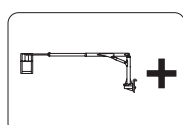
Winch operation mode: single pull



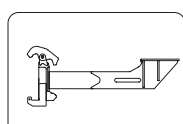
Fixed front basket



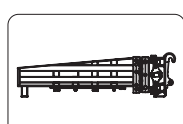
Extendable front man basket



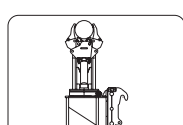
Positive jib



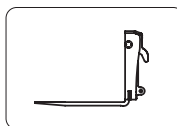
Centering handler



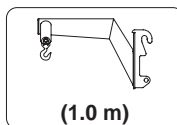
Slab handler



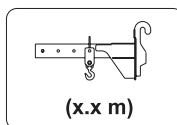
Cylinder handling clamp



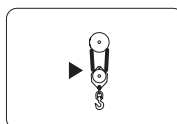
Fork extender/sideshifter



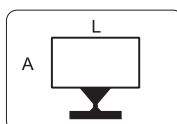
Swan-neck jib (measurements)



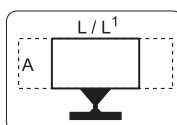
Jib with hook (Measurements)



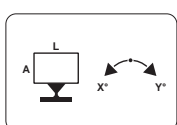
Winch operation mode: double pull



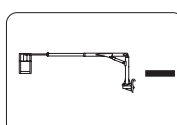
Fixed three-sided basket



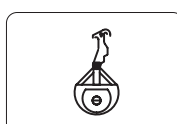
Extendable trilateral man basket



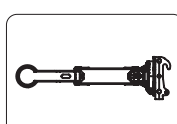
Three-sided basket ( $X^\circ = R\text{-rotation} - Y^\circ = L\text{-rotation}$ )



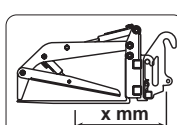
Negative jib



Orange-peel grab with 5 teeth



Tyre handling clamp



Pipe clamp

## 6 DESCRIPTION AND USE OF COMPONENTS



### - ATTENTION

Before using the basket, read and apply the instructions described in "Safe working procedures for lifting work platforms" chapter

### - DANGER

Before using the basket, check that:

- The machine is placed on solid, flat land
- The machine is properly levelled
- The basket is properly levelled, using the spirit levels provided on the basket
- All basket doors are properly closed and at limit switch
- All the operators are equipped with appropriate PPE and have fastened the special safety hooks
- All safety and control devices work properly
- There is a person on the ground to assist the operators in case of emergency



### - PROHIBITION

It is forbidden to use the basket if the conditions described above have not been met.



### - DANGER

If the basket functions or speed are modified, this may expose the operators and the surrounding objects to serious risks. *DIECI S.R.L.* denies any liability for damages resulting from improper use.



### - WARNING

When the machine is used in basket mode, the following controls will be disabled:

- Oscillation movement
- Handling the machine
- Handling the stabilizers (if present)



Refer to the use and maintenance manual of the machine on which the man basket is installed for setting the proper operating mode of the machine.

## 6.1 Opening the side door



### - PROHIBITION

It is strictly forbidden to open the door if the basket is lifted above the ground.



### - DANGER

Pay utmost attention when entering and exiting the basket.

1. Lift the door (Fig. 1-G0000, pos.1) sliding it along the tracks (Fig. 1-G0000, pos.2)
2. Keep the door lifted, enter and exit the basket using the step (Fig. 1-G0000, pos.3)
3. Lower the basket
4. Check if the door has been lowered down to the limit switch



### - DANGER

Before using the platform, make sure that all doors are closed and fastened correctly into position.

When the basket is used, the side door must always be in the lowest position (Fig. 1-G0000, pos.1).



### - DANGER

Check that all the operators in the basket are equipped with the appropriate PPE and are properly secured to the special supports.



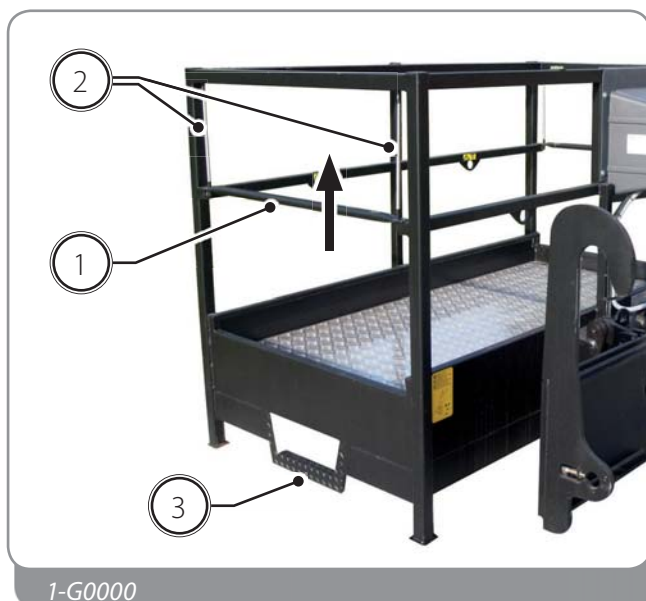
### - PROHIBITION

It is strictly forbidden to lock the door in open position (lifted)



### - PROHIBITION

It is strictly forbidden to lift the door for performing operations or to move the material when the basket is above the ground.



## 6.2 Opening the front door



### - DANGER

Pay utmost attention when entering and exiting the basket.



### - PROHIBITION

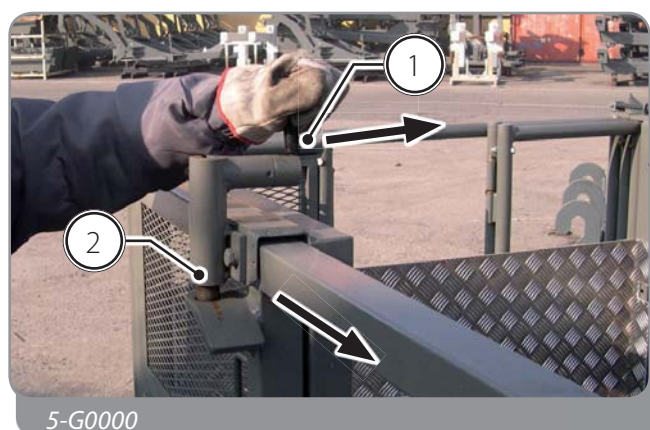
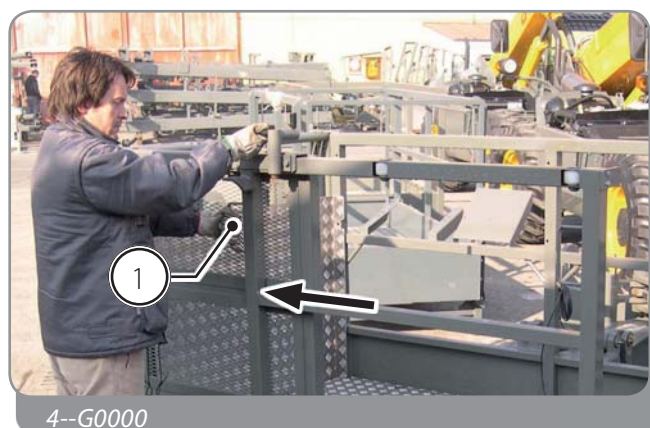
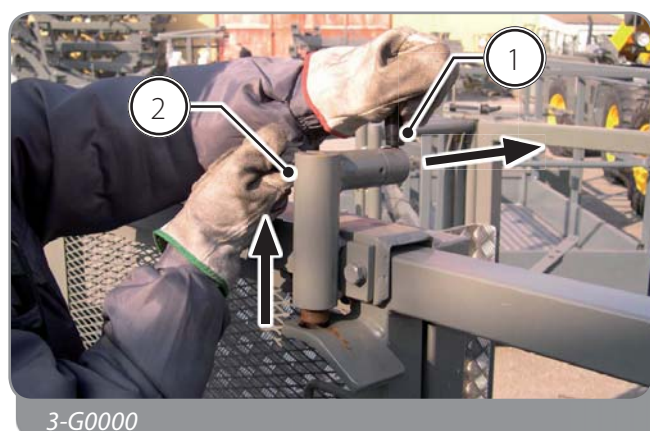
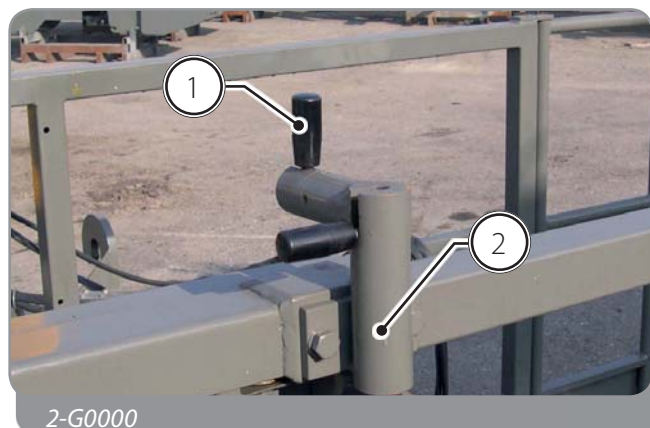
It is strictly forbidden to open the door if the basket is not on the ground.



### - ATTENTION

Use the special handles and levers to prevent crushing your hands.

1. To open the door, operate the safety hook (Fig. 2-G0000). The safety closing system consists of a safety block (Fig. 2-G0000, pos. 1) and of a pin (Fig. 2-G0000, pos. 2).
2. Unlock the pin by moving the safety block lever toward the inner part of the basket until reaching the limit switch and maintain that position (Fig. 3-G0000, pos. 1).
3. Keep the safety block in the limit switch point and lift the pin (Fig. 3-G0000, pos. 2) to unlock the door.
4. Keep the lever lifted, release the safety block and open the door using the special handle (Fig. 4--G0000, pos. 1) sliding it laterally.



## 6.3 Closing the front door



### - DANGER

Pay utmost attention when entering and exiting the basket.



### - PROHIBITION

It is strictly forbidden to open the door if the basket is not on the ground.



### - ATTENTION

Use the special handles and levers to prevent crushing your hands.

1. Close the door by the safety block lever toward the inner part of the basket until reaching the limit switch and maintain that position (Fig. 5-G0000, pos. 1).
2. Keep the safety block in the limit switch point and close the door by sliding it laterally until the pin gets locked (Fig. 5-G0000, pos. 2).
3. Release the safety block and check that the door is properly closed.



## 6.4 Manual basket extension



### - ATTENTION

Use the special handles and levers to prevent crushing your hands.



### - PROHIBITION

It is strictly forbidden to extend the basket when the latter is not placed on the ground.

1. Grab the rubber tie rod and pull it towards the inner part of the basket (Fig. 6-G0000) and lift the tie rod to unlock the extendable structure (Fig. 7-G0000).
2. Push the extendable structure outwards, grabbing exclusively the top tube in the middle part (Fig. 8-G0000, pos. 1).



### - ATTENTION

The walkable platform may fall down when the sideboards are opened (Fig. 8-G0000, pos. 2); therefore, grab the platform to prevent accidental falls.

3. Extend the sideboards completely and align them (Fig. 9-G0000)
4. Grab the walkable platform using the special handle (Fig. 10-G0000) and assist the platform descent until it reaches the horizontal fixed position completely.



### - DANGER

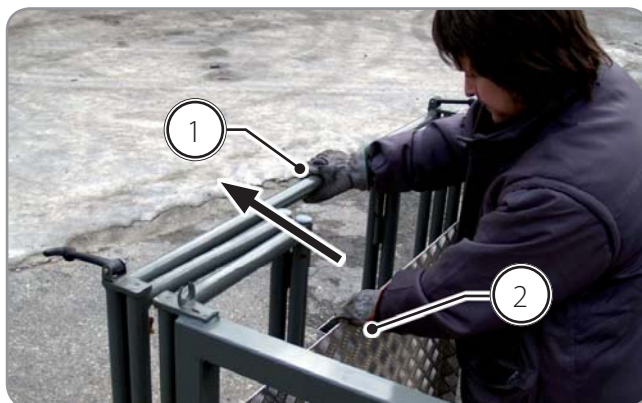
Do not grab the walkable platform from the side during positioning; shear hazard.



6-G0000



7-G0000



8-G0000



9-G0000



10-G0000

## 6.5 Manual basket extension closure



### - ATTENTION

Use the special handles and levers to prevent crushing your hands.



### - PROHIBITION

It is strictly forbidden to extend the basket when the latter is not placed on the ground.

1. Grab the walkable platform using the special handle and lift the walkable platform completely (Fig. 11-G0000).



### - ATTENTION

The walkable platform may fall down when the sideboards are closed (Fig. 12-G0000, pos. 1); therefore, grab the platform to prevent accidental falls.

2. Fold the sideboards completely (Fig. 12-G0000).
3. Fold the sideboards completely, grabbing only the top tube in the middle part (Fig. 13-G0000, pos. 1).
4. Grab the rubber tie rod and pull it towards the inner part of the basket (Fig. 14-G0000) and lower the tie rod to unlock the extendable structure (Fig. 15-G0000).



### - DANGER

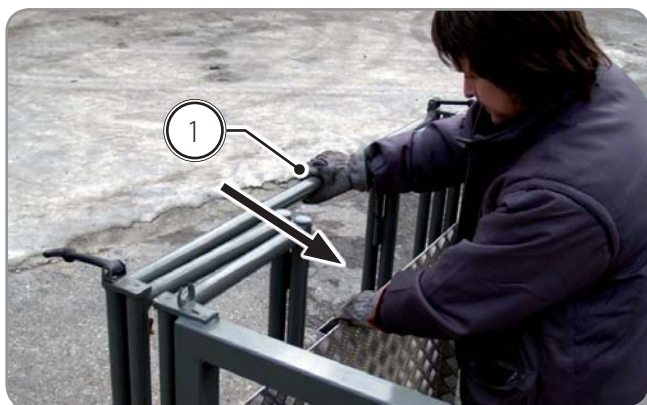
Do not grab the walkable platform from the side during positioning; shear hazard.



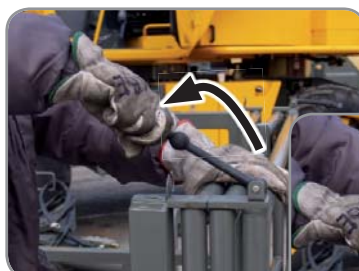
11-G0000



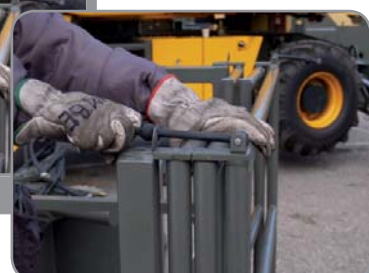
12-G0000



13-G0000



14-G0000



15-G0000



## 6.6 Hydraulic extension on three-sided extendable basket



Before proceeding with these operations, refer to the "Safe operating procedures" chapter to connect the equipment and carry out all the electric and hydraulic connections correctly.



### - PROHIBITION

It is strictly forbidden to extend the basket when the latter is not placed on the ground.

The selection lever located on the basket (Fig. 16-G0000) allows the operator to divert the flow of the oil that services the basket to the extension or rotation system of the basket.

- In position 1, it will supply the extension function
- In position 2, it will supply the rotation function

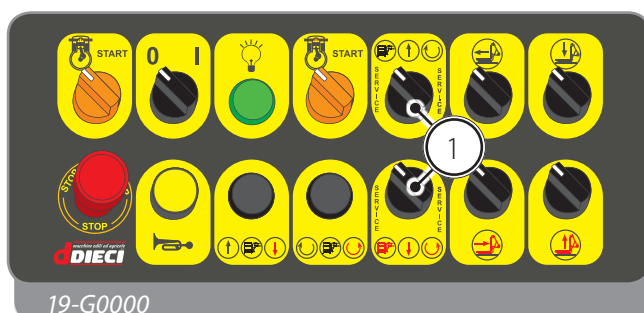
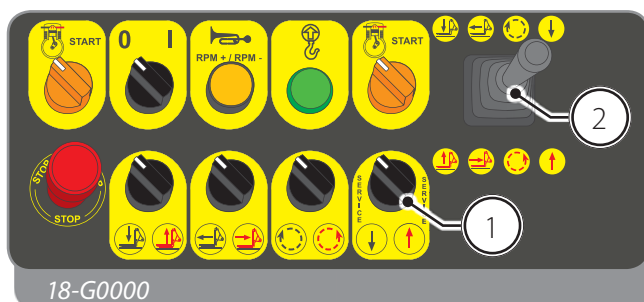
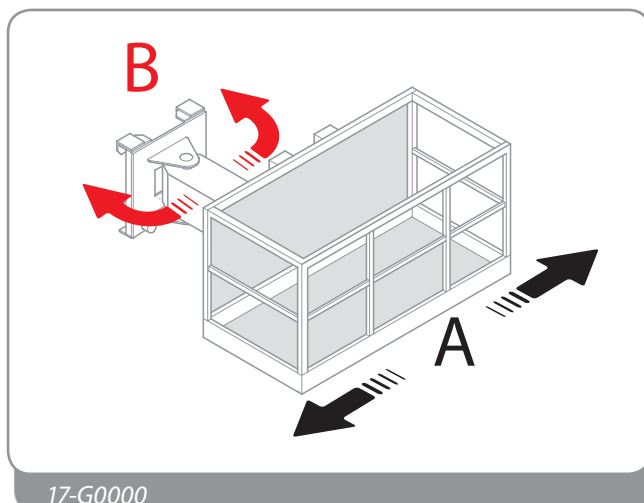
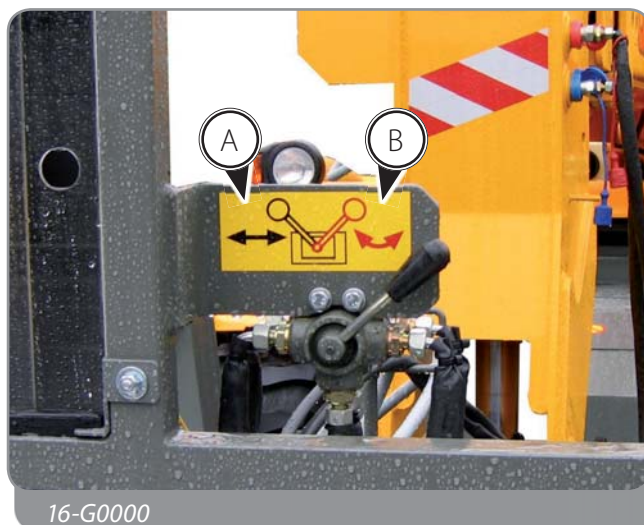
Once you have selected the desired function, enable the movement by means of the controls of the basket push-button panel:

### If the machine is provided with basket with proportional distributor

1. Select the desired function (Fig. 16-G0000, pos. 1 or 2)
2. Rotate the service knob (Fig. 18-G0000, pos. 1)
3. Keep the service knob in position and operate the joystick (Fig. 18-G0000, pos. 2) in the direction corresponding to the movement or function desired.

### If the machine is provided with basket with ON-OFF distributor

1. Select the desired function (Fig. 16-G0000, pos. 1 or 2)
2. Rotate the service knob (Fig. 19-G0000, pos. 1) corresponding to the movement or function desired.





## 6.7 Using the controls on the push-button panel for proportional distributors

### 6.7.1 Enabling the controls

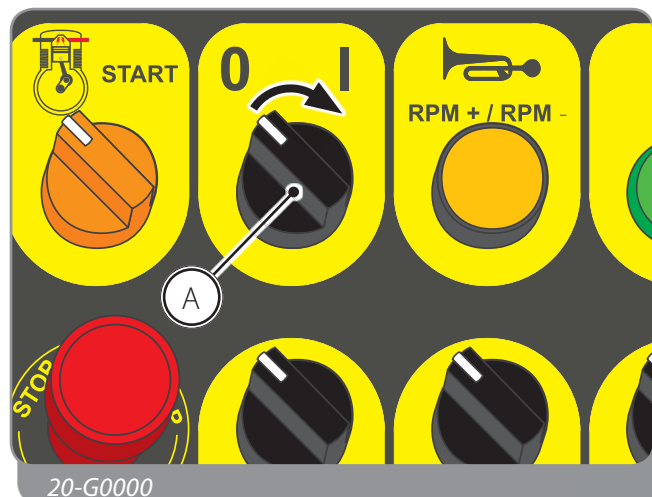
In order to use the controls provided on the basket, you must first enable the controls by rotating the knob, that enables the controls from the basket (Fig. 20-G0000, pos.A), from position "0" to position "1".

Turn the basket control enabling knob to position "0":

- all controls present on the basket will be disabled.

Turn the basket control enabling knob to position "1":

- You will enable the controls from the basket.
- The basket movement controls are disabled from machine cab.
- If the machine is provided with stabilizers and the movements are blocked.
- The machine cannot perform any further movement.



### 6.7.2 Switching on the machine from the basket



#### - DANGER

Before using the basket, check that all basket doors are properly closed and all the operators inside the basket are properly fastened with the appropriate safety devices.



#### - WARNING

Before starting the engine, check that the emergency stop push-button (Fig. 21-G0000, pos.1) is not pressed and the knob that enables the controls from the basket is in position "1" (Fig. 21-G0000, pos.2).

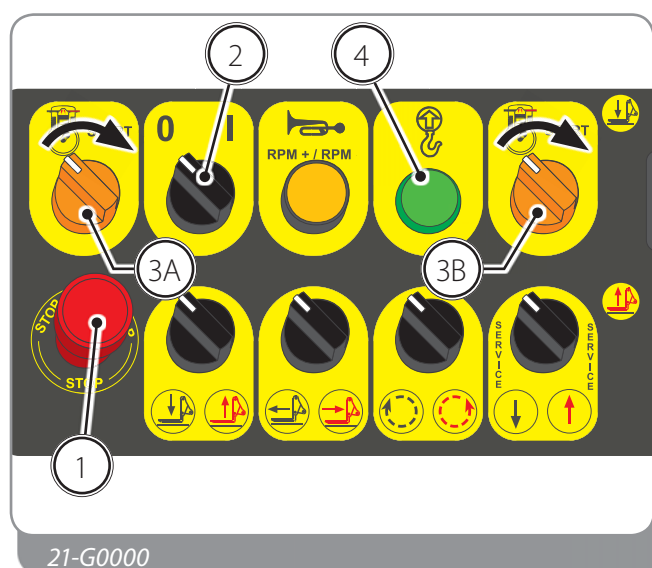
In order to start the machine's engine, turn both start knobs simultaneously (Fig. 21-G0000, pos. 3A and 3B) for a few seconds, until the engine starts.

When the engine starts, the green pilot light of the work area turns on (Fig. 21-G0000, pos.4). The pilot light will remain lit as long as the basket will operate within the allowed work area.



#### - ATTENTION

If the pilot light of the work area does not turn on at engine startup, bring the basket in safety conditions.



### 6.7.3 Handling the basket



#### - WARNING

Before handling the basket, you must check that the control enabling switch is set to "1" and the engine is turned on.

Use the basket controls and move the machine arm.

To carry out movements, you must operate two controls: rotate the knob corresponding to the desired movement (Fig. 22-G0000, pos A and B) and operate simultaneously the movement using the joystick (Fig. 22-G0000, pos C).

After the operation has been completed, release the knob, that will return to idle position.

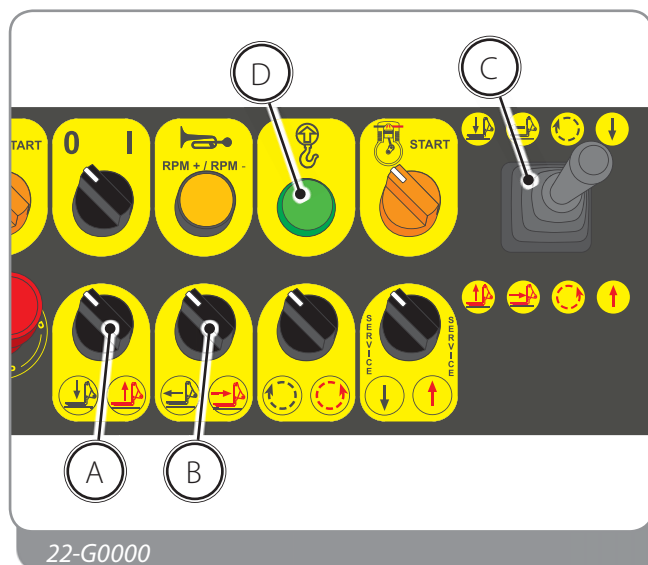
The basket moving speed is of 0.4 m/s.

During the regular use of the basket, the green pilot light of the work area (Fig. 22-G0000, pos.4) remains steadily lit.



#### - DANGER

If the work area pilot light turns off, all the movement considered dangerous for machine stability will be blocked. Only boom retraction and lifting will remain active in order to allow the basket to come back into the foreseen work area.



#### Lift the boom:

- Turn the knob A
- Keep the knob rotated and move the joystick downwards

#### Lower the boom:

- Turn the knob A
- Keep the knob rotated and move the joystick upwards

#### Remove the boom:

- Turn the knob B
- Keep the knob rotated and move the joystick downwards

#### Retract the boom:

- Turn the knob B
- Keep the knob rotated and move the joystick upwards



#### - ATTENTION

If the knob is not rotated, the joystick does not carry out any movement.

#### 6.7.4 Turret rotation \*

**\* Function active only for baskets mounted on Pegasus machines.**

To carry out movements, you must operate two controls: turn the turret rotation knob (Fig. 23-G0000, pos. A) and enable the movement simultaneously, using the joystick (Fig. 23-G0000, pos. C).

The basket moving speed during turret rotation is of 0.7 m/s.

#### 6.7.5 Using the basket services \*



**The basket may be provided with optional services such as extension or rotation.**

To carry out movements, you must operate two controls: rotate the service knob (Fig. 23-G0000, pos. B) and operate simultaneously the movement using the joystick (Fig. 23-G0000, pos. C).

The movement or action changes according to the type of option provided on the basket and the position of the lever located on the basket.

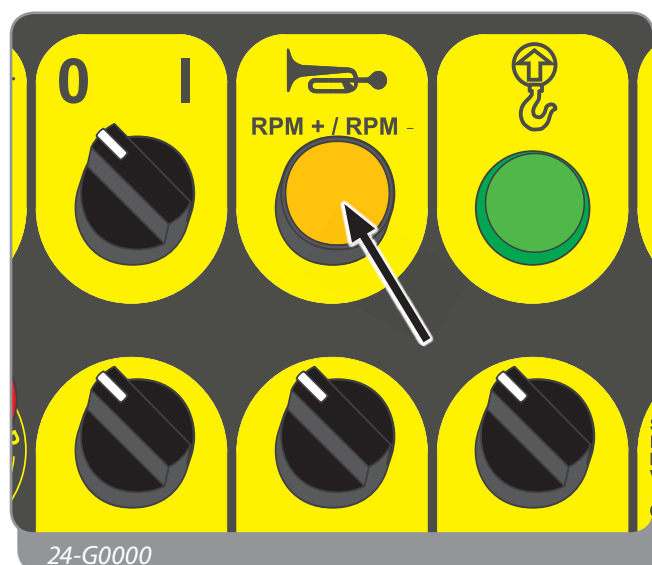
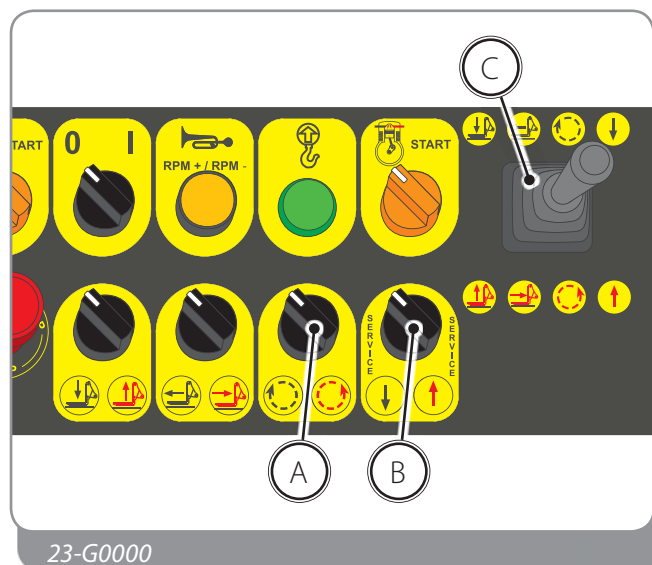
#### 6.7.6 Engine acceleration and acoustic signals

By pressing the horn/accelerator button (Fig. 24-G0000) the horn for acoustic signalling will be enabled.

The same push-button can be used for accelerating/decelerating machine's engine, by bringing it from 900 rpm to 1200 rpm and vice versa (from 900 rpm to 1400 rpm for Pegasus models)

- By pressing the push-button with the engine set to the minimum number of revolutions, the engine will be brought to a high number of revolutions
- By pressing the push-button with the engine set to the maximum number of revolutions, the engine will be brought to a lower number of revolutions.

These two functions take place simultaneously when the push-button is pressed.



### 6.7.7 Shut down the machine and the basket Emergency stop

To shut down the machine's engine, press the emergency stop button (Fig. 25-G0000).

When the emergency button is pressed, the machine's engine stops and all machine and basket movements are blocked.

To bring the emergency button in its initial position you must turn the button.



#### - ATTENTION

Bring the emergency stop button in its initial position only before starting the machine again.



#### - DANGER

After a stop caused by the Mushroom-shaped Emergency Button, return to normal work conditions is only possible after the cause of machine stop has been removed



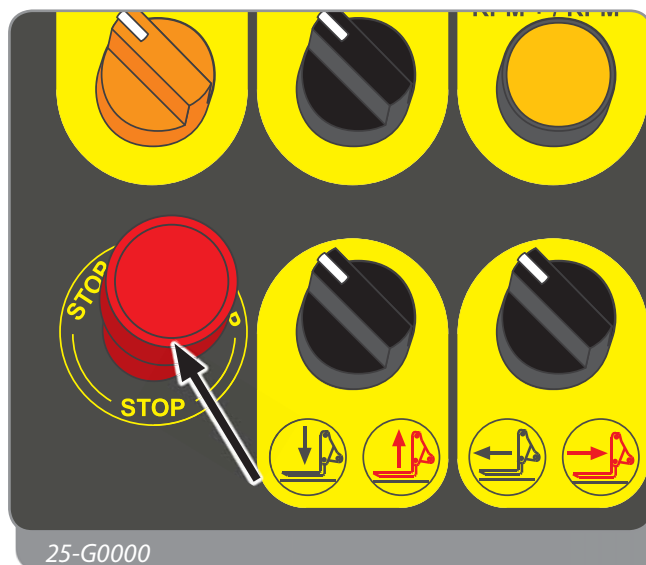
#### - ATTENTION

In the cases of prolonged operations with the basket, that do not require continuous displacements, we recommend you press the emergency stop button to shut down the machine's engine. Do not release the button until you start the machine again.



#### - WARNING

We recommend you always stop the engine at low speed.



## 6.8 Using the controls on the push-button panel for ON-OFF distributors

### 6.8.1 Enabling the controls

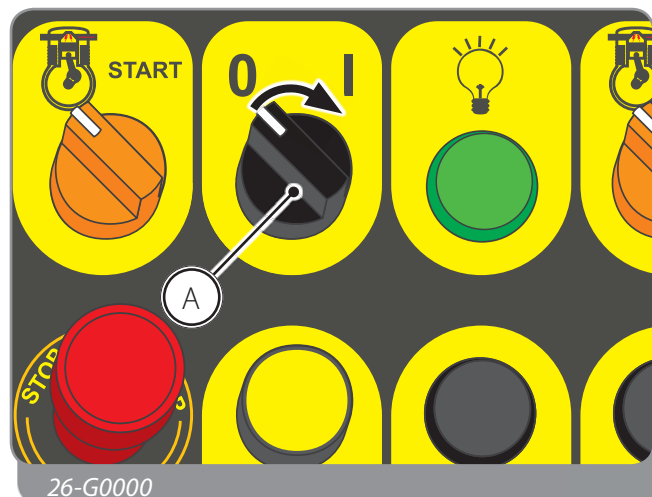
In order to use the controls provided on the basket, you must first enable the controls by rotating the knob, that enables the controls from the basket (Fig. 26-G0000, pos.A), from position "0" to position "1".

Turn the basket control enabling knob to position "0":

- all controls present on the basket will be disabled.

Turn the basket control enabling knob to position "1":

- You will enable the controls from the basket.
- The basket movement controls are disabled from machine cab.
- If the machine is provided with stabilizers and the movements are blocked.
- The machine cannot perform any further movement.



### 6.8.2 Switching on the machine from the basket



#### - DANGER

Before using the basket, check that all basket doors are properly closed and all the operators inside the basket are properly fastened with the appropriate safety devices.



#### - WARNING

Before starting the engine, check that the emergency stop push-button (Fig. 27-G0000, pos.1) is not pressed and the knob that enables the controls from the basket is in position "1" (Fig. 27-G0000, pos.2).

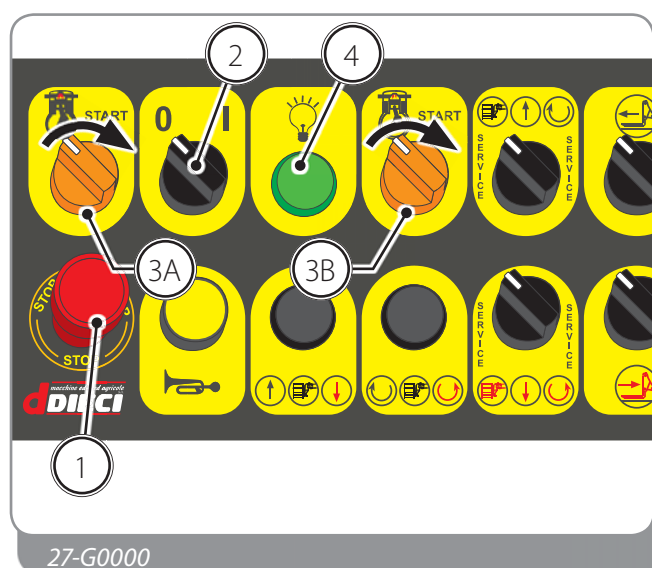
In order to start the machine's engine, turn both start knobs simultaneously (Fig. 27-G0000, pos. 3A and 3B) for a few seconds, until the engine starts.

When the engine starts, the green pilot light of the work area turns on (Fig. 27-G0000, pos.4). The pilot light will remain lit as long as the basket will operate within the allowed work area.



#### - ATTENTION

If the pilot light of the work area does not turn on at engine startup, bring the basket in safety conditions.



### 6.8.3 Handling the basket



#### - WARNING

Before handling the basket, you must check that the control enabling switch is set to "1" and the engine is turned on.

Use the basket controls and move the machine arm.

To carry out the movements, turn the knob corresponding to the movement desired (Fig. 28-G0000):

#### Retract the boom:

- Turn the knob A1

#### Remove the boom:

- Turn the knob A2

#### Lift the boom:

- Turn the knob B1

#### Lower the boom:

- Turn the knob B2

After the operation has been completed, release the knob, that will return to idle position.

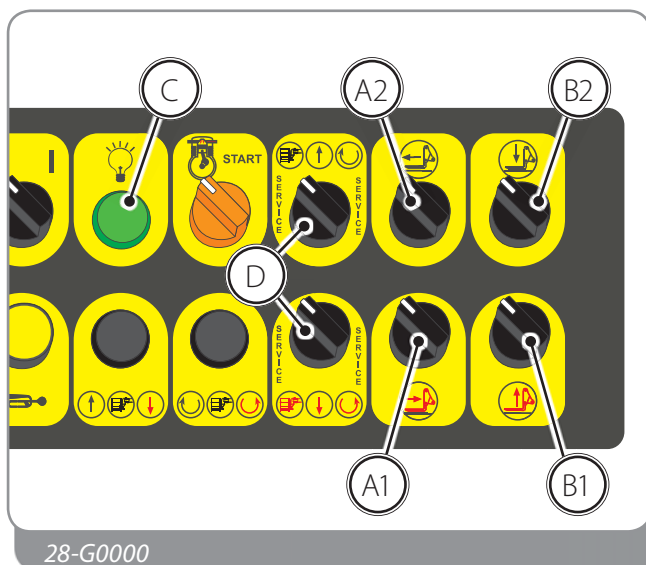
The basket moving speed is of 0.4 m/s.

During the regular use of the basket, the green pilot light of the work area (Fig. 28-G0000, pos. C) remains steadily lit.



#### - DANGER

If the work area pilot light turns off, all the movement considered dangerous for machine stability will be blocked. Only boom retraction and lifting will remain active in order to allow the basket to come back into the foreseen work area.



### 6.8.4 Using the basket services \*



The basket may be provided with optional services such as extension or rotation.

To carry out the movements, turn the service knob (Fig. 28-G0000, pos D), corresponding to the movement desired.

The movement or action changes according to the type of option provided on the basket and the position of the lever located on the basket.

### 6.8.5 Engine acceleration and acoustic signals

Press the horn button (Fig. 29-G0000, pos. A) the horn will be enabled for sending acoustic signals.

### 6.8.6 Shut down the machine and the basket Emergency stop

To shut down the machine's engine, press the emergency stop button (Fig. 29-G0000, pos. B).

When the emergency button is pressed, the machine's engine stops and all machine and basket movements are blocked.

To bring the emergency button in its initial position you must turn the button.



#### - ATTENTION

Bring the emergency stop button in its initial position only before starting the machine again.



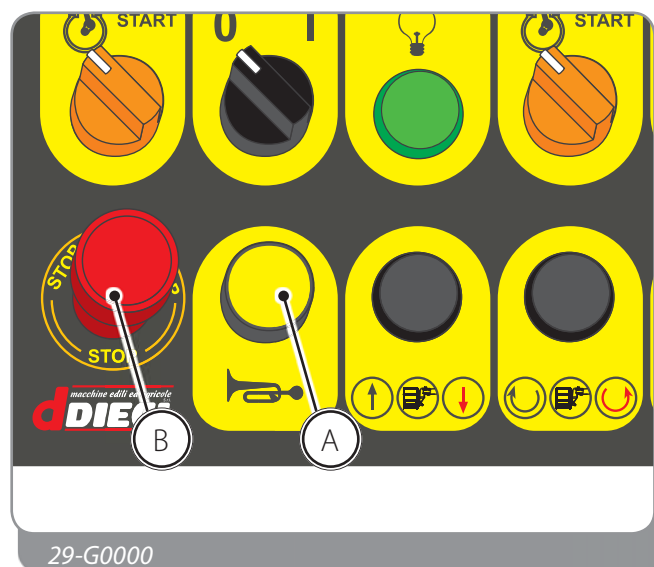
#### - DANGER

After a stop caused by the Mushroom-shaped Emergency Button, return to normal work conditions is only possible after the cause of machine stop has been removed



#### - ATTENTION

In the cases of prolonged operations with the basket, that do not require continuous displacements, we recommend you press the emergency stop button to shut down the machine's engine. Do not release the button until you start the machine again.



## 6.9 Using the controls on the aluminium basket push-button panel

### 6.9.1 Enabling the controls

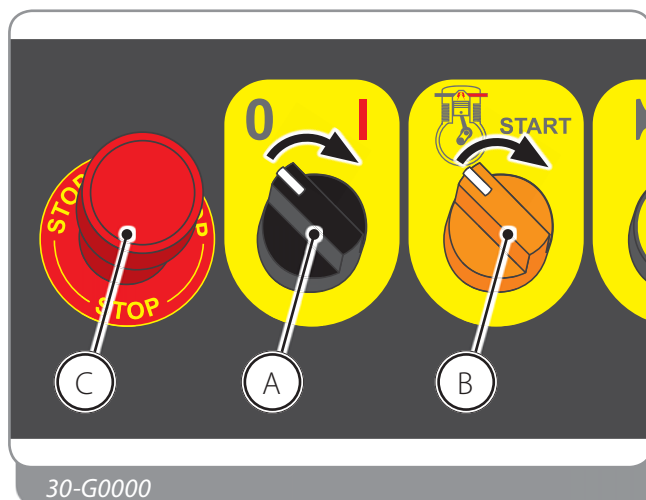
In order to use the controls provided on the basket, you must first enable the controls by rotating the knob, that enables the controls from the basket (Fig. 30-G0000, pos.A), from position "0" to position "1".

Turn the basket control enabling knob to position "0":

- all controls present on the basket will be disabled.

Turn the basket control enabling knob to position "1":

- You will enable the controls from the basket.
- The basket movement controls are disabled from machine cab.
- If the machine is provided with stabilizers and the movements are blocked.
- The machine cannot perform any further movement.



### 6.9.2 Switching on the machine from the basket



#### - DANGER

Before using the basket, check that all basket doors are properly closed and all the operators inside the basket are properly fastened with the appropriate safety devices.



#### - WARNING

Before starting the engine, check that the emergency stop push-button (Fig. 30-G0000, pos.C) is not pressed and the knob that enables the controls from the basket is in position "1" (Fig. 30-G0000, pos.A).

In order to start the machine's engine, turn the start knob (Fig. 30-G0000, pos. B) for a few seconds, until the engine starts.



### 6.9.3 Handling the basket



#### - WARNING

Before handling the basket, you must check that the control enabling switch is set to "1" and the engine is turned on.

Use the basket controls and move the machine arm.

To carry out the movements, turn the knob corresponding to the movement desired (Fig. 28-G0000):

#### Lift the boom:

- Turn the knob A to the left

#### Lower the boom:

- Turn the knob A to the right

#### Retract the boom:

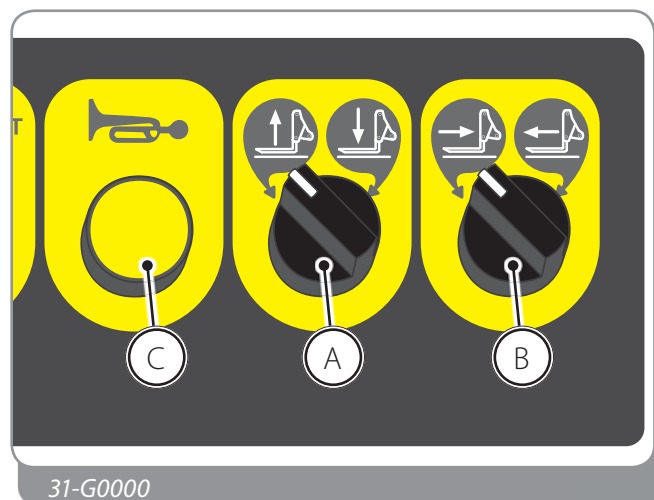
- Turn the knob B to the left

#### Remove the boom:

- Turn the knob B to the right

After the operation has been completed, release the knob, that will return to idle position.

The basket moving speed is of 0.4 m/s.



### 6.9.4 Acoustic signals

Press the horn button (Fig. 31-G0000, pos. C) the horn will be enabled for sending acoustic signals.

### 6.9.5 Shut down the machine and the basket Emergency stop

To shut down the machine's engine, press the emergency stop button (Fig. 32-G0000, pos. A).

When the emergency button is pressed, the machine's engine stops and all machine and basket movements are blocked.

To bring the emergency button in its initial position you must turn the button.



#### - ATTENTION

Bring the emergency stop button in its initial position only before starting the machine again.



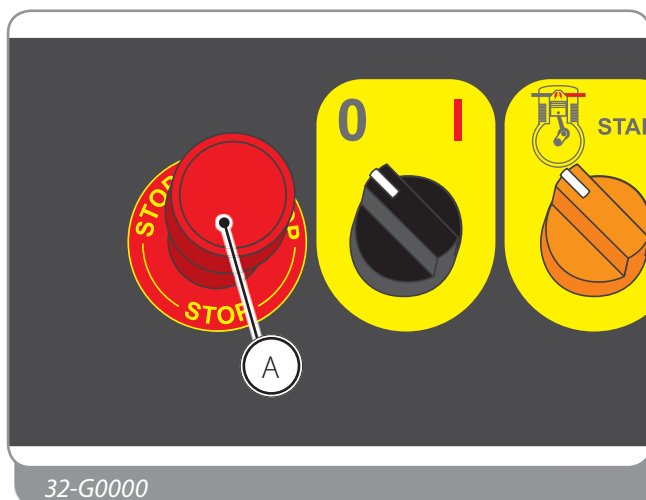
#### - DANGER

After a stop caused by the Mushroom-shaped Emergency Button, return to normal work conditions is only possible after the cause of machine stop has been removed



#### - ATTENTION

In the cases of prolonged operations with the basket, that do not require continuous displacements, we recommend you press the emergency stop button to shut down the machine's engine. Do not release the button until you start the machine again.



## 6.10 Use of basket with radio control



Refer to the use and maintenance manual of the machine on which the man basket is installed for setting the proper procedures for using the machine correctly with the radio control.



Refer to the use and maintenance manual of the radio control for the instructions and procedures related to radio control use.

The radio control support of the basket (Fig. 1-G0000, pos. 1), is fitted with an emergency push-button (Fig. 1-G0000, pos. 2) and a green pilot light (Fig. 1-G0001, pos. 3).

Press the emergency push-button for shutting down the engine and block any movement of the basket and the machine. Use the emergency push-button in the event of failure or danger. To restore the regular functions of the machine, after having restored the conditions of use for the basket and the machine, turn the stop button in the direction shown by the arrows located on the same.

The green pilot light warns the operator when the basket is inside the allowed work area.

In the event of failure, the basket control unit of the basket enables an intermittent acoustic signal.



### - ATTENTION

The fixed boom handlers are also provided with a control on the sensors that detect the extension, to ensure the safety category: if the boom extension control is kept enabled (inside and outside) for more than 12 seconds and the boom has not travelled at least 9 cm, the control unit blocks all the movements.

In order to restore the movements, you must reset the system from the ground, by cutting off the power supply for at least 3 seconds. Reset the control unit only after having checked the integrity of the cable winder.



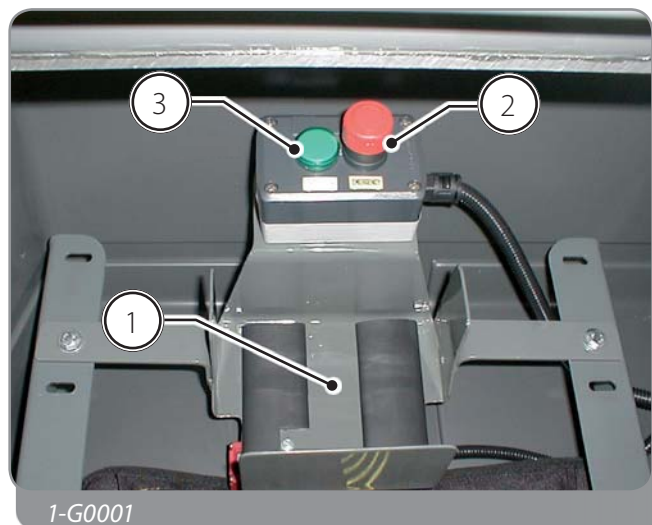
### - ATTENTION

In order to use the man basket with radio control you must select the proper operating mode on the machine and position the radio control in the special support on the basket (Fig. 2-G0001).



### - PROHIBITION

It is strictly forbidden to move the basket from the ground with personnel on the platform.





## 6.11 Use of personnel lift basket with volvo plate

The equipment may be mounted on machines provided with Volvo plates when using personnel lift baskets, trusses with anchors and winches. It is, however, required to block the lateral movement of the plate.



### - ATTENTION

**It is mandatory to block the Volvo plate when using man baskets, trusses with anchors and winches.**

In order to block the volvo plate, proceed as follows:

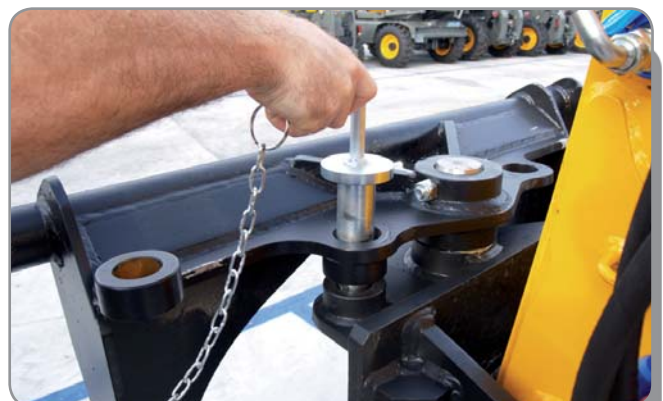
1. Dismantle any equipment previously installed on the plate
2. Use the cab controls and align the two holes in order to insert the locking pin (Fig. 1-G0002)
3. Remove the quick-release shear pin from the locking pin (Fig. 2-G0002)
4. Insert the locking pin in its seat (Fig. 3-G0002)
5. Insert the quick-release shear pin into the locking pin (Fig. 4-G0002)



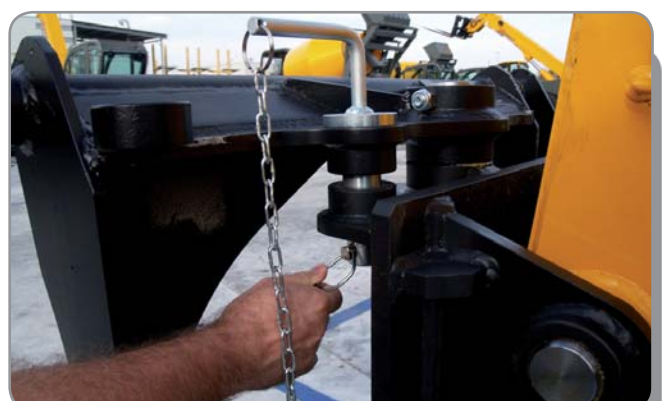
1-G0002



2-G0002



3-G0002



4-G0002



## 7 EQUIPMENT INSTALLATION

### 7.1 General warnings regarding use of the equipment



#### - PROHIBITION

It is prohibited to modify the structure of the equipment or the regulation of the safety devices of the various components.



#### - ATTENTION

It is only possible to use certified equipment on DIECI vehicles and envisioned for the vehicle itself. The Manufacturer will not be liable in the event of modifications, incorrect use or use of equipment that is not certified.



#### - ATTENTION

The equipment assembled on the vehicle can only be used on hard ground and with the vehicle levelled and maximum gradient allowed of 2°.



#### - ATTENTION

The equipment installed on the vehicle must be used exclusively by skilled and authorized staff, which must have read this manual. In the event of circulation on roads, refer to the vehicle Use and Maintenance Manual, assuring that the operator has a driving licence in compliance with the Standards in force in the country of use (B or higher for ITALY) and that the boom of the vehicle is in completely retracted position.



#### - WARNING

Before starting to use the vehicle and relative equipment or before performing particularly complex or dangerous manoeuvres, it is necessary to practice with the vehicle in a free work area without obstacles.



#### - ATTENTION

The vehicle on which it is installed must be braked and stabilised only on solid ground.



#### - ATTENTION

In the event of bad visibility of the area, use a person on the ground to co-ordinate movements and the manoeuvres to be performed and monitor the area, keeping all persons away. The person on the ground must be at a safe distance from the moving vehicle and inform any staff in the surrounding area before every manoeuvre.



#### - WARNING

To prevent damage to the hydraulic fittings when the equipment is changed, stop the engine and wait one minute to remove the pressure to the circuit. Always clean the fittings before the successive insertion.



#### - WARNING

Make daily checks regarding cleanliness, protection and the conditions of the quick-release joints of the equipment circuits and on the boom head.



#### - DANGER

Never take the equipment into the proximity of naked flames.



**- ATTENTION**

Before all use, check:

- that the equipment is correctly mounted and locked onto its support
- that the cab safety device is set in compliance with the equipment assembled.
- that the specific bearing capacity diagram for the vehicle and equipment mounted is present on the vehicle.



**- ATTENTION**

Scrupulously comply with the respective Capacity diagrams when using the vehicle.



**- PROHIBITION**

It is prohibited to operate if the capacity diagrams relative to the type of vehicle and equipment installed are not present.



**- WARNING**

The indications supplied by the vehicle anti-tilting over system must be considered valid for standard working conditions, on flat, solid ground and with instruments operating and calibrated correctly. In all cases, the values indicated by the capacity diagrams must be respected and never exceeded.



**- ATTENTION**

Every time the equipment is used, it is mandatory to insert the shear pins to fasten the equipment to the tool-carrier plate.



### 7.1.1 *Equipment pre-use checks*



**Refer to the pre-use safety procedures of the vehicle on which the equipment is assembled.**

Before each use, at the start and end of the working day:

- Check that the equipment and the components of which it is made up are integral, operating perfectly and are not damaged.
- Check that the equipment bearing capacity is higher than the weight of the load to handle.
- Check the correct operation of the equipment and the controls present in the vehicle cab on which the equipment is installed in a work area free from staff and obstacles.
- Check the operation of all LEDs and indicators present inside the vehicle on which the equipment is assembled.
- Check slewing when unloaded.
- Check the level of oil in the hydraulic circuit, lifting the equipment to maximum height and extension allowed by the vehicle boom.
- Control that the safety decals and symbols are legible.
- Check the efficiency and functionality of the safety devices.
- Visually check the state of seals, inspect the vehicle and check for the presence of cavities, cracks in the welding metal or the base metal as well as any other problems.
- Check any deformations and/or modifications of the material due to temperature changes or collisions.
- Check the wearing condition of the equipment.
- Check that the operating mode relative to the equipment installed has been set on the vehicle.
- Check that the bearing capacity Diagrams relative to the vehicle and the equipment installed are present on the vehicle.

#### **In the event of equipment with hydraulic connections:**

- Control that the hoses are in good condition and they do not interfere with movements of the boom or the equipment.
- Check the correct connection of the hydraulic hoses (if present), making sure that the equipment functions are not reversed.

#### **In the event of equipment with electric connections:**

- Clean and fix all electric connections (if present). Before each shift, check that there are no loosened, twisted, hardened or damaged electric cables. Do not run the vehicle if there are loose, twisted, hardened or damaged electric cables.

#### **If set-up, check radio control.**

- Check the correct operation of the push-button control panel/radio control and the battery charge.

#### **If lifting equipment is used**

- Check the integrity of the lifting hook, including relative safety device and the hook bolt for attachment to the cable.

#### **If winches are used**

- Check that the cable is not damaged, cut, broken or frayed. If the cable is damaged, do not use the equipment and make the necessary replacements. (This control can be performed by taking the boom to maximum extension and unrolling the winch cable). The end run function can also be controlled during this operation, which must block the cable in the ways described in the specific paragraph.
- Check operation of the strain-gauge transducer of the equipment assembled (if present). To check correct operation, try and lift a load slightly heavier than the maximum rated capacity of the equipment. If the equipment does not lift the load, the transducer operates correctly, otherwise interrupt the operation immediately taking the load to the ground and have the equipment repaired.

### **If using an aerial work platform.**

- At the start of every work cycle, check that the load limiter and area limiter emergency buttons work correctly
- Before using the platform, check that it is not wet, dirty with grease or oil and has no frozen surfaces or is covered with substances that may make the surfaces slippery. If this is not the case, clean the platform surfaces thoroughly. Slipping and falls hazard.
- The vehicle on which the equipment is assembled must be braked and stabilised on solid ground. If stabilizers are present (optional), position them correctly on the ground before starting to operate.
- Before operating, make sure the platform closure bar is lowered and free from restrictions. Always check the safety belts are attached correctly (PPD cat. III).



#### **- ATTENTION**

**All checks must be made by suitably trained staff and recorded in the control register**

**Whenever any damage or malfunctioning is detected, follow the instructions contained in this manual or contact the DIECI After-sales network to agree on the operations to be undertaken.**

**Whenever routine or extraordinary maintenance is necessary, or the equipment must be adjusted technically, only contact staff authorised by the DIECI After-sales network and make note of the intervention in the control register**

**Any tampering with the equipment makes any warranty and liability of the Manufacturer become null and void**



#### **- DANGER**

**The user that detects the anomaly on the equipment or on the vehicle on which the same is installed, and which does not comply with the Safety Standards, must suspend use and inform the Manager immediately.**



**For circulation on roads, refer to the Use and Maintenance Manual of the vehicle on which the equipment has been assembled.**

## 7.2 Man basket installation procedure



### - DANGER

During this operation, make sure there is no person in the vicinity of the machine or the basket.

Perform the operations given below to install the basket correctly:

1. Lower and completely retract the telescopic boom.
2. In the case of rotary machine, align the turret with the frame.
3. Position all the levers in idle position, connect the stationary brake and shut down the engine of the machine.
4. Remove the safety pins "3" (Fig. 2-I0103) (if provided) by removing the safety pins "2" and lifting the locking pins "1".
5. Rest the basket on a flat, solid surface in order to hitch it to the vehicle tool-carrier plate easily.
6. Start the machine and use the key selector (Fig. 3-I0103) to set the operating mode "Forks".



Refer to the use and maintenance manual of the machine to set the operating mode.

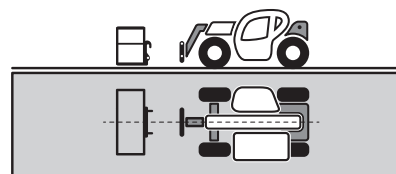
7. Position the vehicle with the boom lowered parallel to the basket. Approach the tool-carrier plate to the basket, extending the telescopic boom.



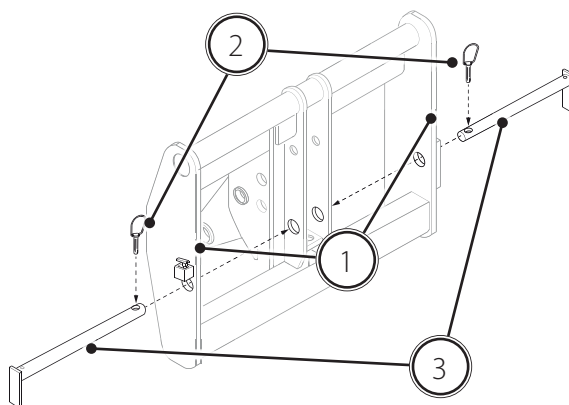
### - WARNING

The rotary vehicles cannot extend the boom if it is lowered completely. Raise the boom slightly in order to extend it.

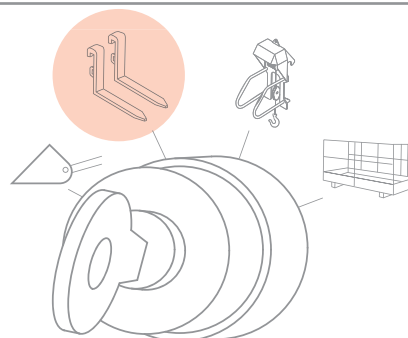
8. Using the slewing movement, turn the tool-carrier plate downwards. Bring the top part of the plate under the equipment locking hooks.
9. Lift the boom slightly and turn the tool-carrier plate upwards. By doing this, the equipment will adhere to the vehicle tool-carrier plate.
10. Turn the engine off and get down from the vehicle.



1-I0103



2-I0103



3-I0103

11. Lift the locking pin "1" (Fig. 4-I0103) and insert the safety pins "3" in their seats onto the tool holder plate, by passing them through the corresponding slots of the basket.
12. Insert the safety pin "2" on the pins already installed.



**- ATTENTION**

If the pins and relative shear pins should not reach the correct position due to deformation, the basket must not be used as it could unhitch dangerously and fall to the ground.



**- PROHIBITION**

It is prohibited to operate without the safety pin installed on the tool holder plate.

13. Carry out the electric and hydraulic connections (if present).



Fur further information, consult the chapters "Connections of hydraulic pipes" and "Electrical cables connection".



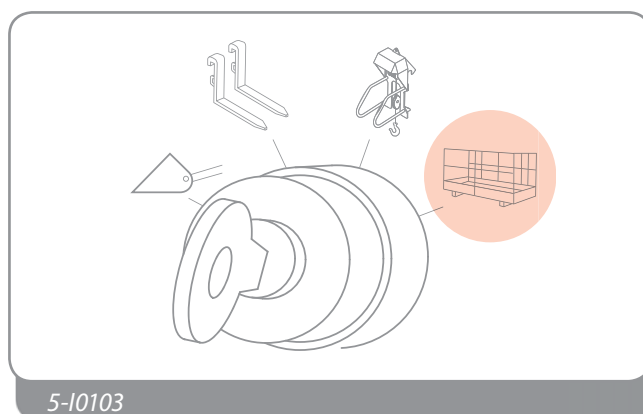
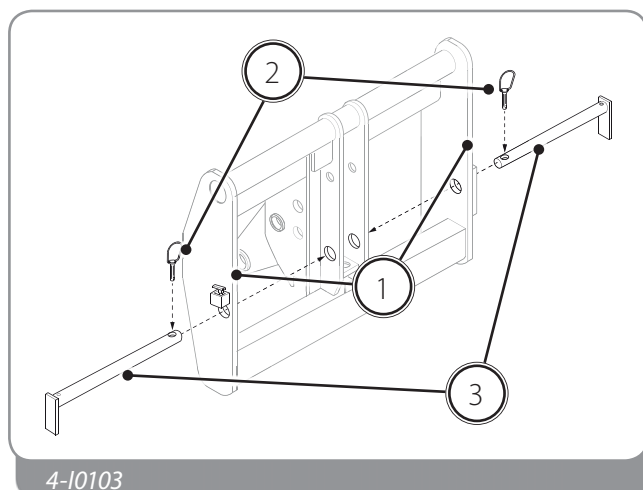
**- ATTENTION**

When using equipment that has hydraulic and electric connections, these must always be correctly connected to the vehicle. Failure to connect does not allow regular operation of the safety devices, with risk of injury/damage to persons and objects and vehicle roll-over hazard.

14. Once you have fastened the basket correctly, start the machine and position the machine in work position.
15. Lower the stabilizers (if present) and keep the machine levelled using the spirit level located in the cab for reference.
16. Level the basket referring to the spirit level provided on the basket.
17. Use the key selector (Fig. 5-I0103) to set the "Basket" operating mode to enable the control push-button panel located on the basket.



Refer to the use and maintenance manual of the machine to set the proper operating mode.



**- PROHIBITION**

It is prohibited to work with the vehicle operational mode different to that of the equipment installed. The electro-hydraulic equipment will not operate correctly and the safety devices will not operate, thus creating a risk of damage/injury to persons and objects and vehicle roll-over.

18. Switch the vehicle off.
19. Start the control panel by setting the start key to position "I".
20. Remove the start key.
21. Close the door and deliver the key to the personnel assigned to intervene in case of emergency.



**Consult the chapter "Safe operating procedures for man baskets" before using the basket.**



## 7.3 Hydraulic connections

### 7.3.1 Warnings



#### - ATTENTION

Before making the hydraulic connections, perform the "Equipment installation procedure" and check that the equipment is fixed correctly onto the vehicle.



#### - WARNING

Always clean the hydraulic connections thoroughly before every engagement. If both of the hydraulic connections are not used, they must be protected using the relevant plastic caps.



#### - DANGER

Do not use the vehicle or the equipment if the hydraulic cables are worn or damaged, but repair or replace them.



#### - ATTENTION

Check that the hydraulic hoses do not become an obstruction for vehicle or equipment movements, as they could be damaged.



Consult the equipment manual to check the correct operation of the same.



#### - DANGER

Once the hydraulic connections have been made, it is mandatory to check that the controls are coherent with the operations performed by the vehicle.

By reversing the connections, the accessory functions could be reversed with respect to normal use. Therefore, after having concluded the equipment installation procedures, try the various functions in a free area.



#### - ATTENTION

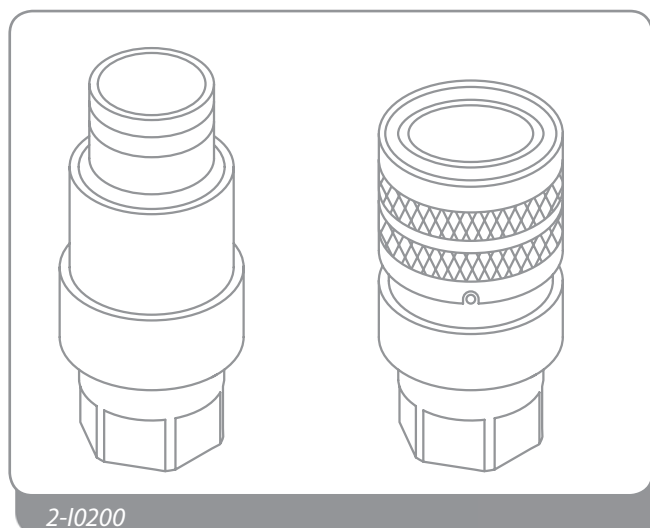
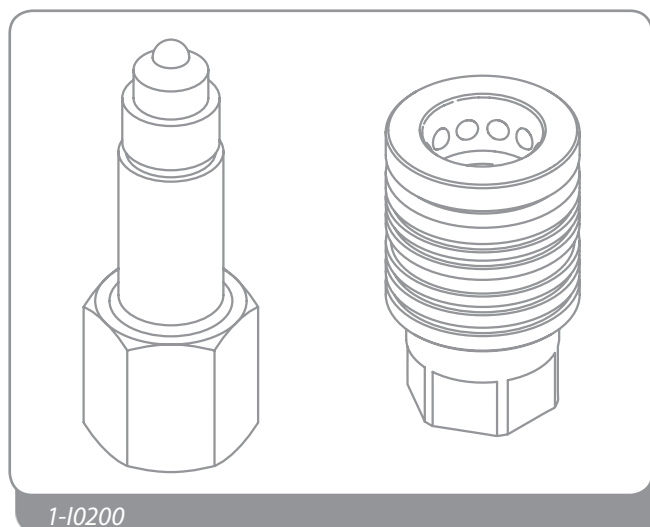
When using equipment that has hydraulic and electric connections, these must always be correctly connected to the vehicle. Failure to connect does not allow regular operation of the safety devices, with risk of injury/damage to persons and objects and vehicle roll-over hazard.

### 7.3.2 *Types of hydraulic quick-couplings*

There are two types of hydraulic quick couplings at the head of the boom:

- Push-Pull (Fig. 1-I0200)
- Flat-Face (Fig. 2-I0200)

Differently to the Push-Pull couplings, the Flat-Face couplings have a safety device (Fig. 2-I0200, pos.3) to prevent involuntary disconnections of the couplings.





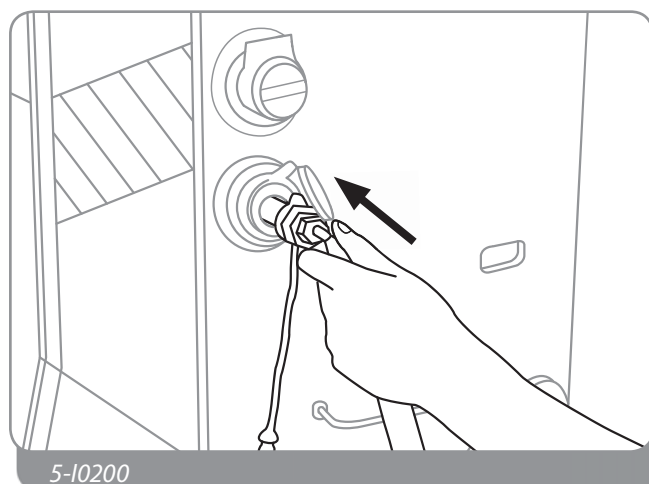
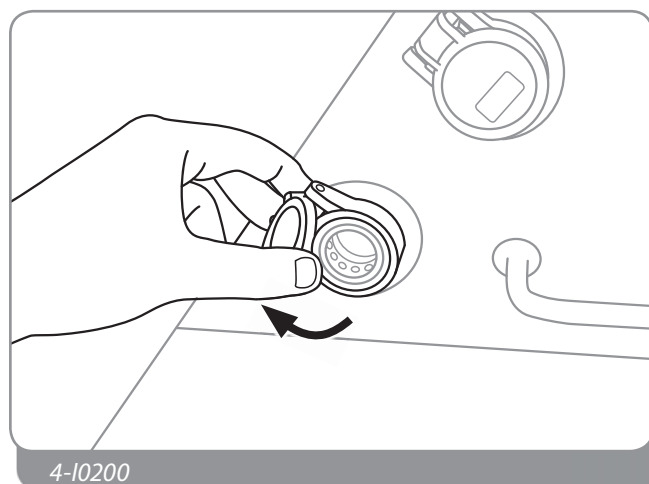
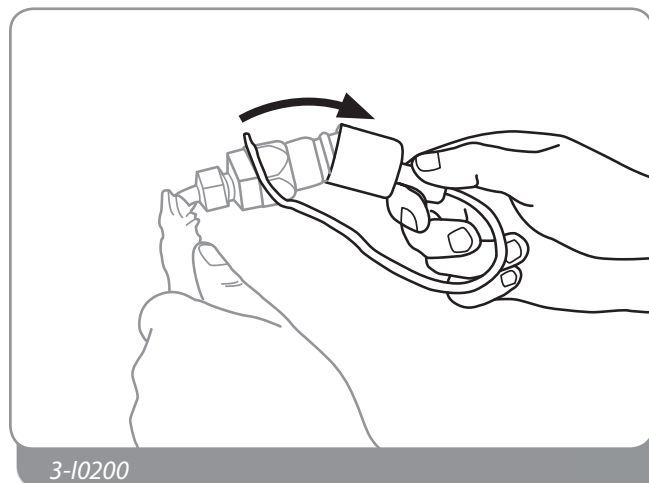
### 7.3.3 *Push-Pull couplings connection on the boom head*

To connect the Push-Pull quick couplings to the sockets positioned on the boom head:

1. Perform the equipment installation procedures described in the "Equipment installation procedure" chapter:
2. Switch the vehicle off
3. In the event of closed-centre distributor, discharge the residual pressure from the plant as described previously.
4. Remove the protection hood from the equipment hydraulic plugs (Fig. 3-I0200).
5. Lift the hydraulic socket protective cover on the boom head (Fig. 4-I0200).
6. Remove any dirt from the plug and socket.
7. Insert the plug into the socket and press to block the hose (Fig. 5-I0200).
8. Check that the hydraulic hose is fixed correctly.
9. Carry out the same operations for both hoses.



**Consult the equipment manual to check the correct operation of the same.**



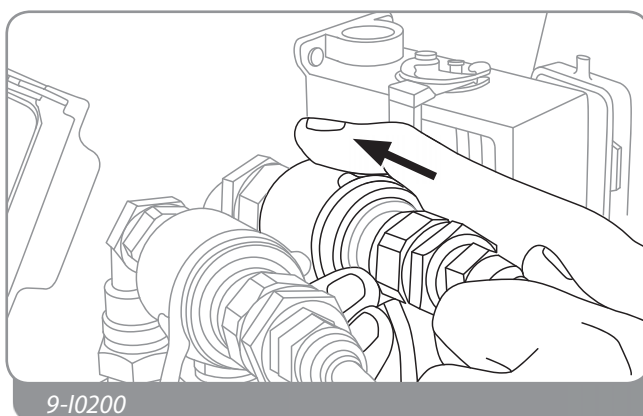
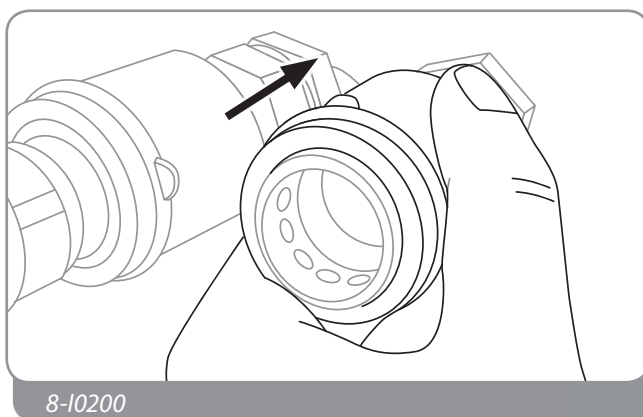
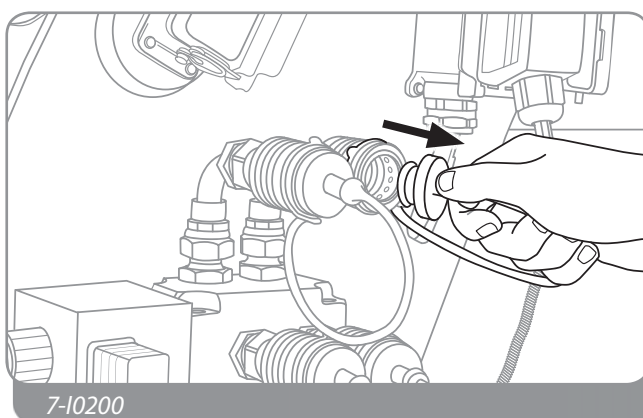
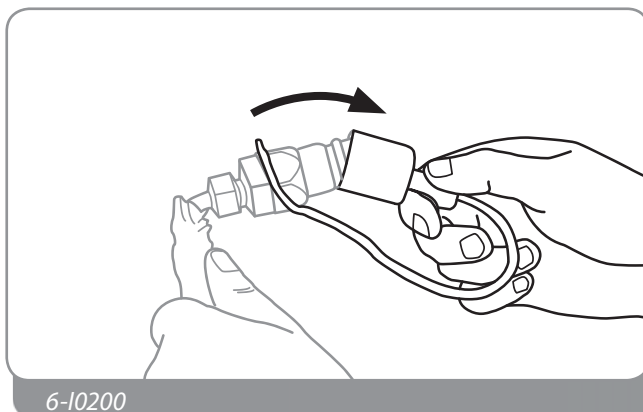
### 7.3.4 *Push-Pull couplings connection on the boom head diverter valve.*

To connect the Push-Pull quick couplings to the valve positioned on the boom head:

1. Perform the equipment installation procedures described in the "Equipment installation procedure":
2. Switch the vehicle off.
3. In the event of closed-centre distributor, discharge the residual pressure from the plant as described previously.
4. Remove the protection hood from the equipment hydraulic plugs (Fig. 6-I0200).
5. Remove the protection hood from the hydraulic sockets present in the valve the boom head (Fig. 7-I0200).
6. Remove any dirt from the plug and socket.
7. Push the ring onto the valve socket towards the boom (Fig. 8-I0200).
8. Insert the plug fully home into the socket and release the valve ring (Fig. 9-I0200).
9. Check that the hydraulic hose is fixed correctly.
10. Carry out the same operations for both hoses.



**Consult the equipment manual to check the correct operation of the same.**



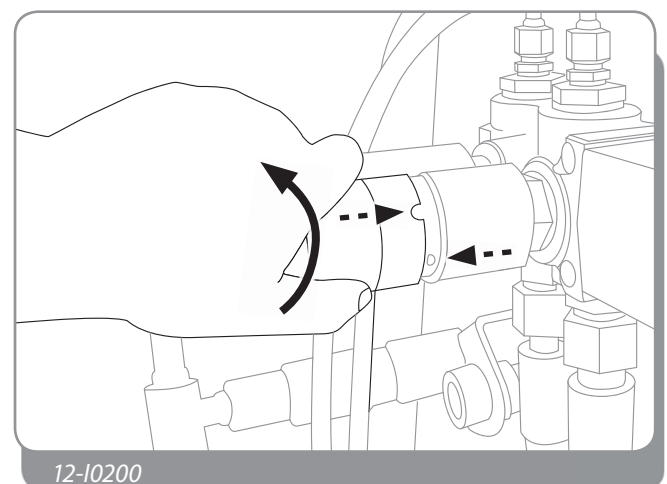
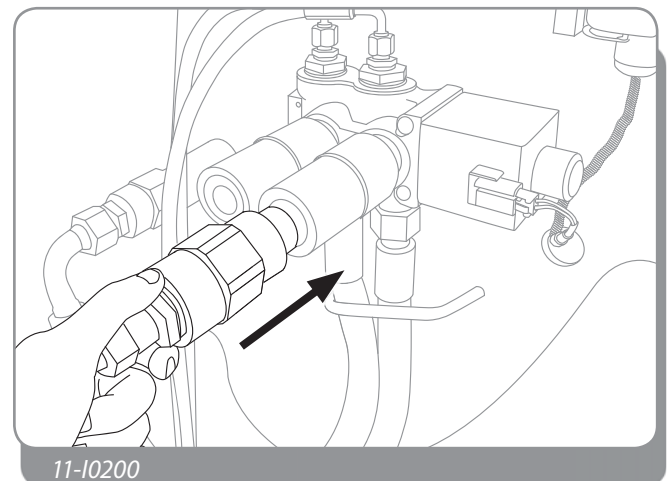
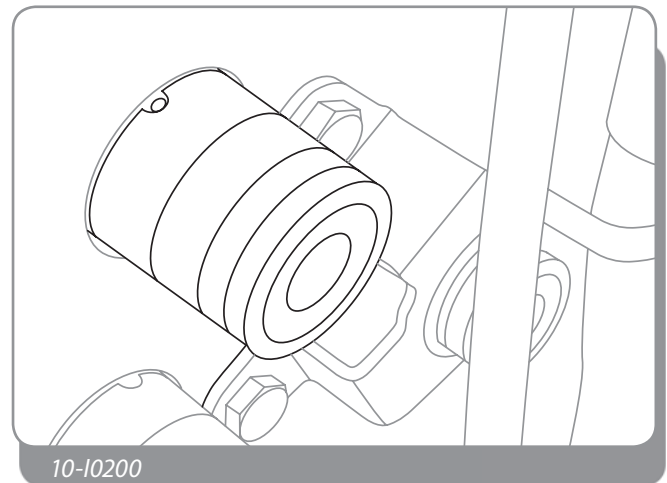
### 7.3.5 Flat-Face couplings connection

To connect the Flat-Face quick couplings:

1. Perform the equipment installation procedures described in the "Equipment installation procedure":
2. Switch the vehicle off.
3. In the event of closed-centre distributor, discharge the residual pressure from the plant as described previously.
4. Remove any dirt from the plug and socket.
5. Place the plug at the centre of the socket and push the plug fully home (Fig. 11-I0200), until the socket ring has lifted.
6. Turn the ring to block the plug in the socket (Fig. 12-I0200).
7. Check that the hydraulic hose is fixed correctly.
8. Carry out the same operations for both hoses.



**Consult the equipment manual to check the correct operation of the same.**







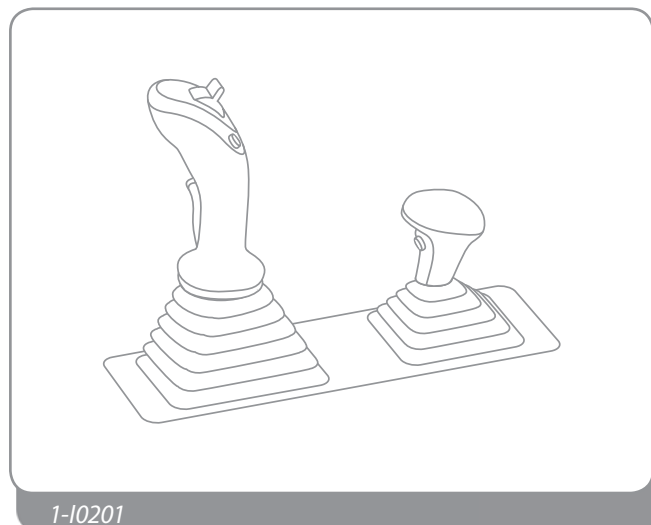
### - ATTENTION

Before connecting or disconnecting the telescopic handlers, check that there is no residual pressure inside the hydraulic circuit.

#### 7.3.6 *Closed-centre distributor: Discharge the pressure via the joysticks:*

If a closed-centre hydraulic distributor is installed on the vehicle and the joystick and services lever is present:

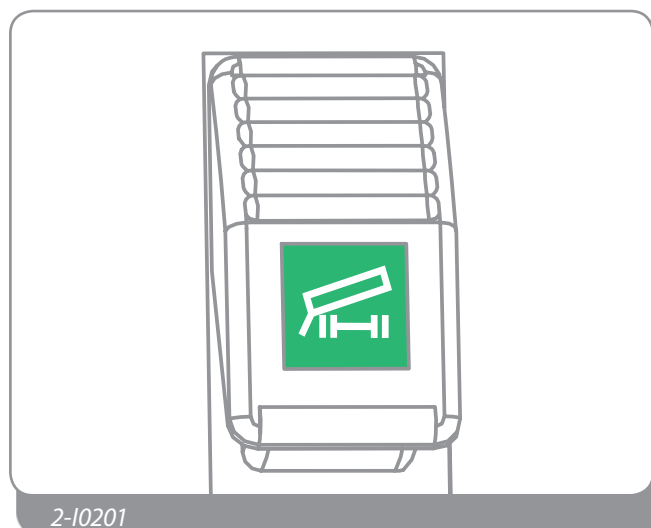
1. Switch the engine off
2. Shift the services lever (Fig. 1-I0201) in both directions
3. Make the hydraulic coupling connections



#### 7.3.7 *Closed-centre distributor: Discharge the pressure via the trailer Down button:*

If a closed-centre hydraulic distributor is installed on the vehicle and the "trailer down" is present:

1. Turn the vehicle engine on
2. Press the "Trailer down" button (Fig. 2-I0201) to discharge the residual pressure of the entire hydraulic plant
3. Turn the engine off without performing further operations.
4. Make the hydraulic coupling connections





## 7.4 Electric connections

### 7.4.1 Warnings



**- ATTENTION**

Before making the electric connections, perform the "Equipment installation procedure" and check that the equipment is fixed correctly onto the vehicle.



**- DANGER**

Turn the vehicle off before making the electric connections.



**- DANGER**

Do not use the vehicle or the equipment if the electric cables are worn or damaged, but repair or replace them.



**- PROHIBITION**

Do not leave the boom plug hung on the chain during work operations. It could be damaged, thus compromising vehicle start-up during use without equipment.



**- ATTENTION**

Check that the electric cable does not become an obstruction for vehicle or equipment movements, as it could be damaged.



**- ATTENTION**

When using equipment that has hydraulic and electric connections, these must always be correctly connected to the vehicle. Failure to connect does not allow regular operation of the safety devices, with risk of injury/damage to persons and objects and vehicle roll-over hazard.



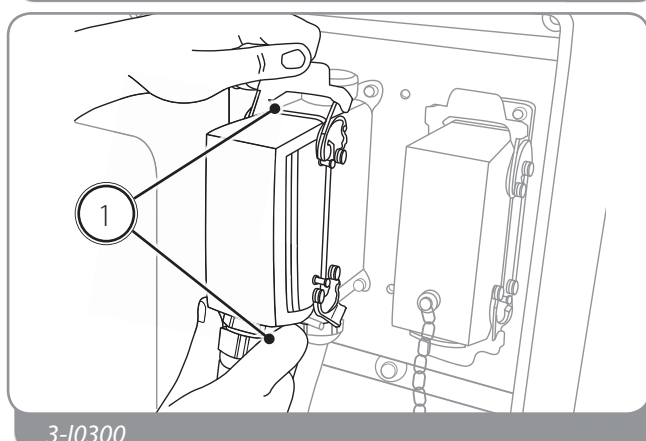
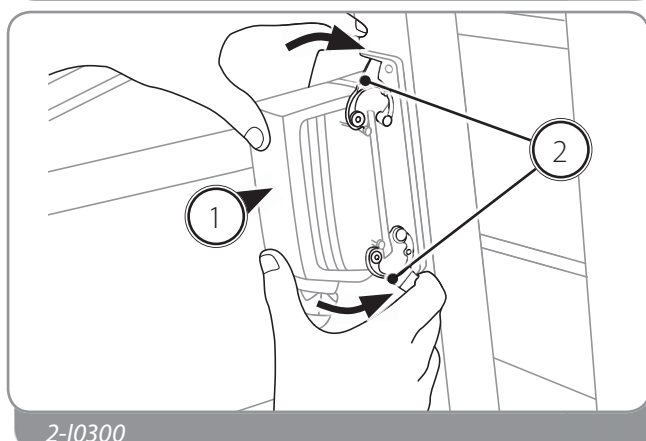
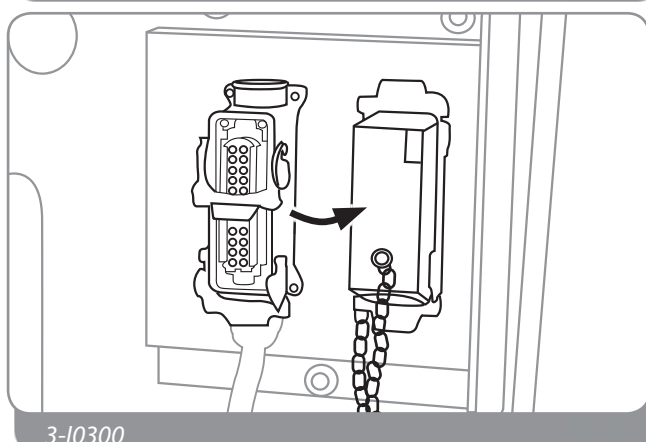
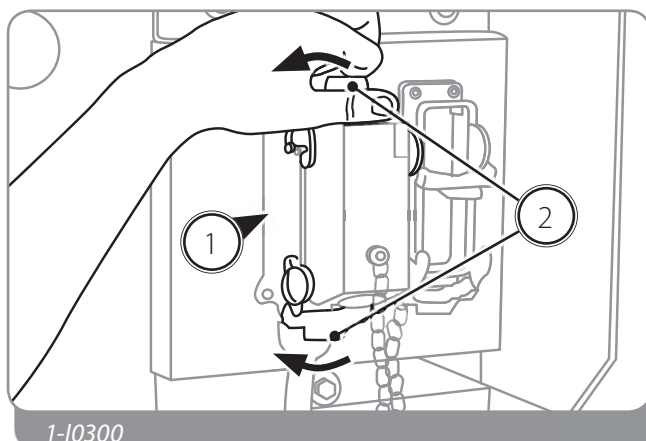
Consult the equipment manual to check the correct operation of the same.

## 7.4.2 Electric connection procedure

The electric connections at the head of the boom can be with 6 or 24 poles, but the connection procedure remains unvaried for both.

Perform the following operations for the equipment supplied with electric plant:

- Perform the equipment installation procedures described previously.
- Switch the vehicle off.
- Disconnect the plug from the boom socket (Fig. 1-I0300, pos. 1) lowering the 2 safety levers (Fig. 1-I0300, pos. 2).
- Shift the plug positioned on the boom socket in the false socket positioned at the side (Fig. 2-I0300) and fix it using the relevant levers.
- Disconnect the plug from the false socket on the equipment (Fig. 3-I0300, pos. 1) lowering the 2 safety levers (Fig. 3-I0300, pos. 2).
- Connect the equipment plug to the boom electric socket, fixing it by lifting the 2 safety levers (Fig. 4-I0300, pos. 1).
- Once the equipment has been fixed correctly, turn the vehicle on and set the correct work mode of the same, relative to the equipment just installed. Consult the "Equipment and operational mode selection" chapter in the vehicle use and maintenance manual.
- Check that the capacity diagram relative to the vehicle and the equipment just installed is present in the cab.





## 7.5 Removing equipment

Follow the operations given below to re-position the accessory once use has been concluded:

1. Position the vehicle on solid, flat land.
2. Position the equipment on a support platform to facilitate handling and transport of the individual piece of equipment.
3. Lower and extend the vehicle boom by about one metre.
4. Switch the engine off.
5. Remove any electric connections (consult next chapter).
6. Remove any hydraulic connections (consult next chapter).
7. Remove the shear pins from the pins that fix the equipment to the boom plate.
8. Slide the pins out from the tool-carrier plate.
9. Turn the vehicle on and slew downwards in a way to release the tool-carrier plate from the equipment.
10. Once the tool-carrier plate has been released, retract the vehicle boom.



### - WARNING

The accessory placed on the ground must always be appropriately indicated and barriers and separators must be positioned on all sides of the area that it could occupy if falling.



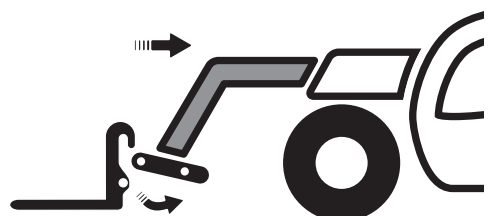
### - DANGER

After having discharged the pressure from the system, always wait one minute before disconnecting the joints.



### - DANGER

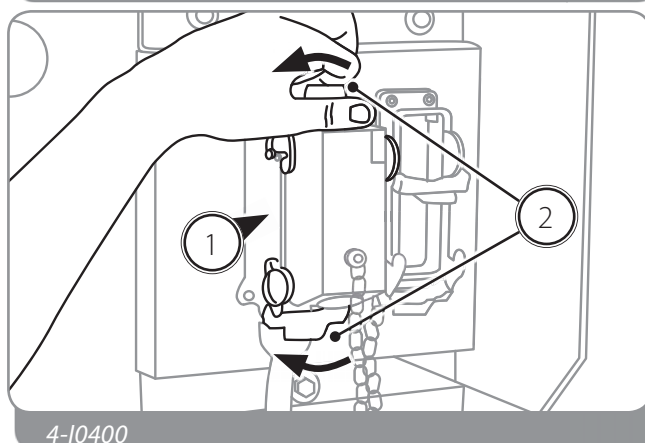
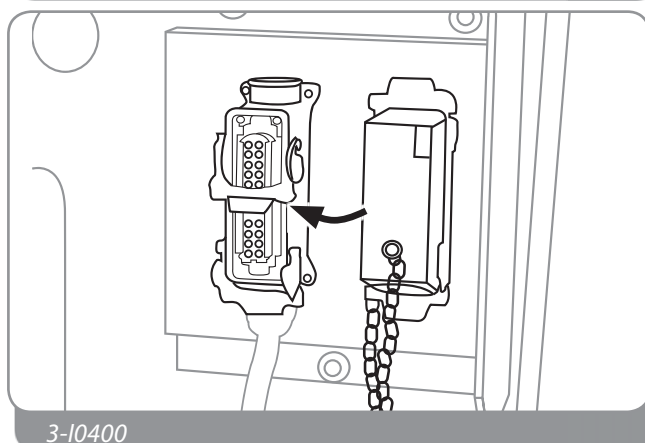
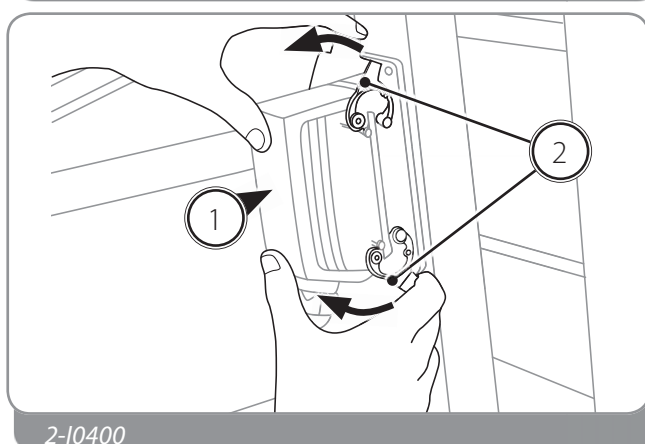
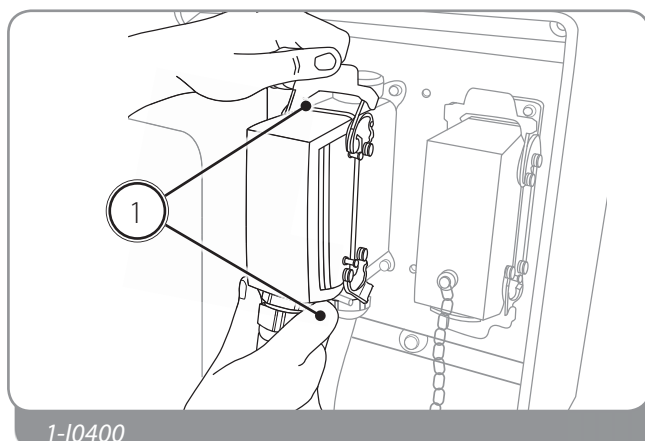
Always disconnect the equipment hydraulic hoses and electric cables before removing it from the vehicle. On the contrary, the hoses and cables could be damaged and the equipment could fall and be dragged.



### 7.5.1 Removing electric connections

To remove the electric connections from the equipment:

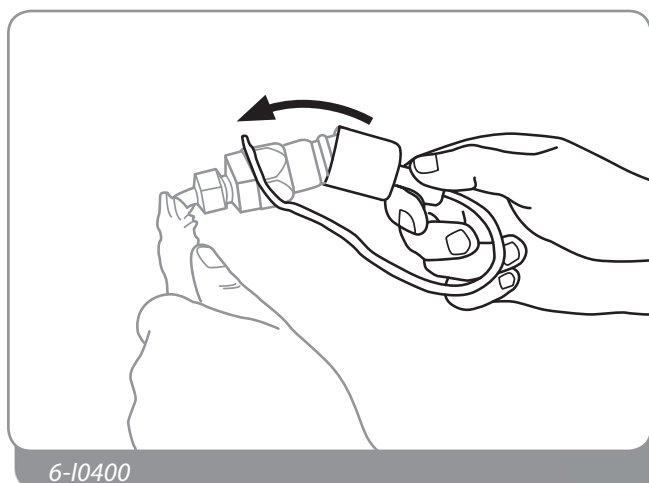
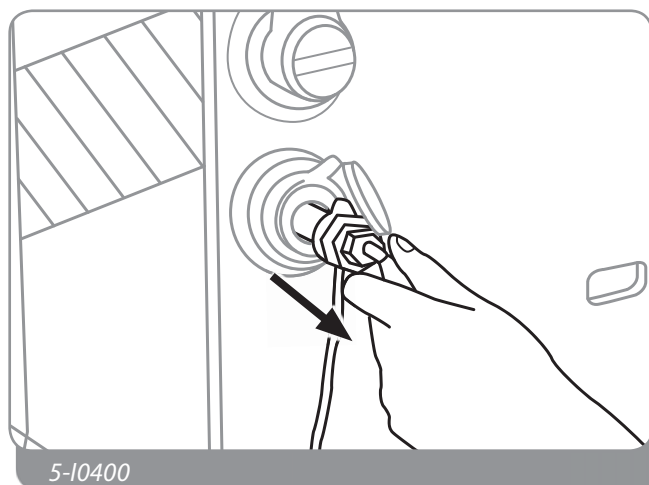
1. Perform points 1, 2, 3 and 4 of the procedure for removal of the equipment from the vehicle, described in the previous chapter.
2. Disconnect the equipment plug from the boom, lowering the two safety levers (Fig. 1-I0400, pos.1).
3. Position the equipment plug on the false socket of the same (Fig. 2-I0400, pos.1), fixing it with the safety levers (Fig. 2-I0400, pos.2).
4. Move the plug from the boom false socket to the electric socket (Fig. 3-I0400, pos.1).
5. Fix the plug to the boom socket (Fig. 4-I0400, pos.1) via the safety levers (Fig. 4-I0400, pos.2).
6. Check that the electric cable is not entangled in the tool-carrier plate or can be crushed by the equipment when it is placed on the ground.
7. Proceed with the successive operations to remove the equipment from the vehicle.



### 7.5.2 *Push-Pull couplings removal from the boom head*

To disconnect the Push-Pull quick couplings from the socket positioned on the boom head:

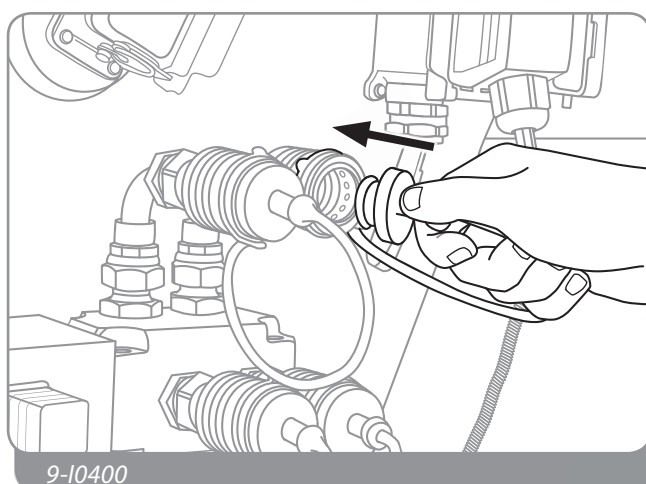
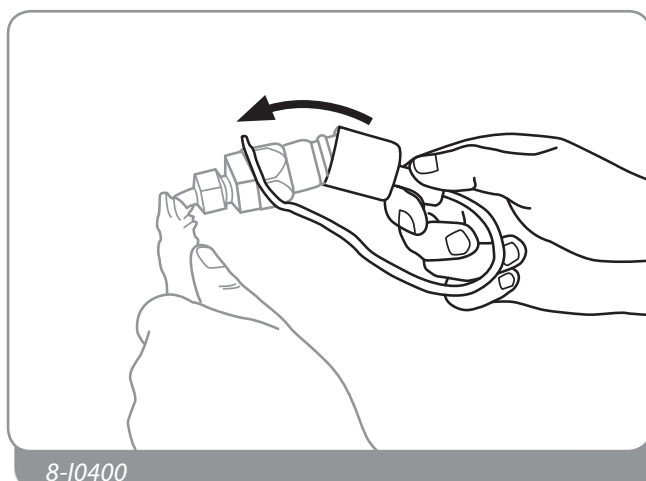
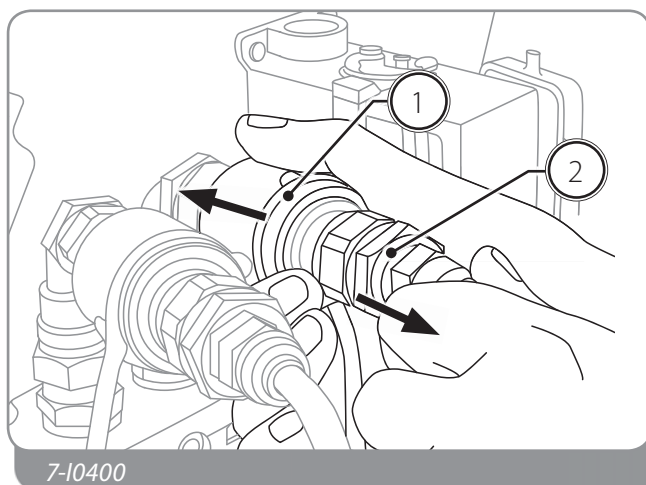
1. Perform points 1, 2, 3 and 4 of the procedure for removal of the equipment from the vehicle, described in the previous chapter.
2. If there is a closed-centre distributor installed on the vehicle, perform the procedures described in the "Hydraulic hose connections" to discharge the pressure present in the hydraulic circuit.
3. Switch the vehicle off
4. Pull the plug to remove it from the socket (Fig. 5--I0400).
5. Remove any dirt from the plug and socket.
6. Place the protection hood on the equipment hydraulic plugs (Fig. 6--I0400).
7. Carry out the same operations for both hoses.
8. Check that the hydraulic hoses are not entangled in the tool-carrier plate or can be crushed by the equipment when it is placed on the ground.
9. Proceed with the successive operations to remove the equipment from the vehicle.



### 7.5.3 *Push-Pull couplings removal from the boom valve*

To disconnect the Push-Pull quick couplings from the valve positioned on the boom head:

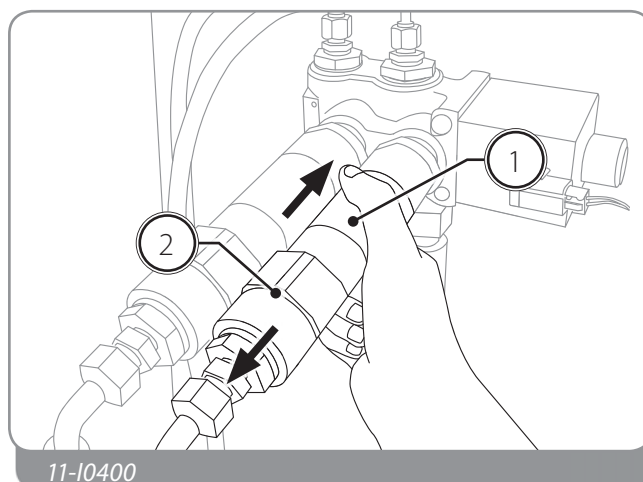
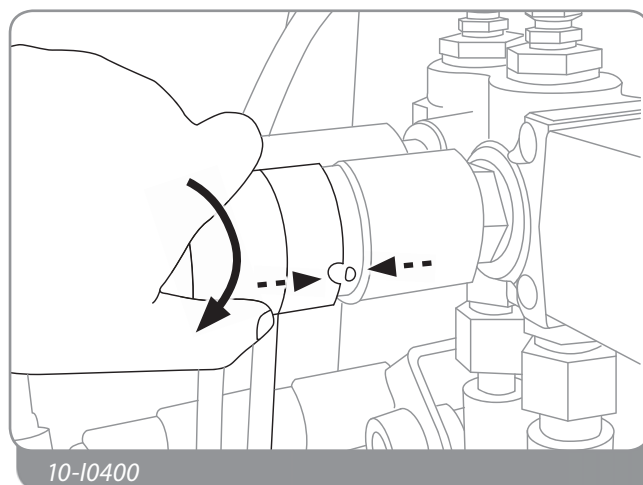
1. Perform points 1, 2, 3 and 4 of the procedure for removal of the equipment from the vehicle, described in the previous chapter.
2. If there is a closed-centre distributor installed on the vehicle, perform the procedures described in the "Hydraulic hose connections" to discharge the pressure present in the hydraulic circuit.
3. Switch the vehicle off
4. Push the socket ring towards the vehicle boom (Fig. 7--I0400, pos.1).
5. Pull the plug to remove it from the socket (Fig. 7--I0400, pos.2).
6. Remove any dirt from the plug and socket.
7. Place the protection hood on the equipment hydraulic plugs (Fig. 8--I0400).
8. Place the protection hood on the valve hydraulic sockets (Fig. 9--I0400).
9. Carry out the same operations for both hoses.
10. Check that the hydraulic hoses are not entangled in the tool-carrier plate or can be crushed by the equipment when it is placed on the ground.
11. Proceed with the successive operations to remove the equipment from the vehicle.



### 7.5.4 Flat-Face couplings removal

To disconnect the Flat-Face quick couplings:

1. Perform points 1, 2, 3 and 4 of the procedure for removal of the equipment from the vehicle, described in the previous chapter.
2. If there is a closed-centre distributor installed on the vehicle, perform the procedures described in the "Hydraulic hose connections" to discharge the pressure present in the hydraulic circuit.
3. Switch the vehicle off
4. Turn the socket ring in a way to align the recess with the position of the sphere on the socket (Fig. 10--I0400).
5. Push the socket ring (Fig. 11--I0400, pos.1).
6. Slide the plug out (Fig. 11--I0400, pos.1).
7. Remove any dirt from the plug and socket.
8. Carry out the same operations for both hoses.
9. Check that the hydraulic hoses are not entangled in the tool-carrier plate or can be crushed by the equipment when it is placed on the ground.
10. Proceed with the successive operations to remove the equipment from the vehicle.





## 8 SAFE WORK PROCEDURES

### 8.1 General warnings



For safe work procedures in the various work conditions, refer to the "Safety Standards" chapter.



#### - ATTENTION

Do not use the vehicle without having first read and understood all parts of this manual and without having undergone suitable training.



#### - PROHIBITION

Do not use the vehicle while under the effect of alcohol, drugs or medicines that can cause drowsiness or alter reflexes.



#### - DANGER

Do not drive the vehicle with wet hands or shoes, which have been dirtied with grease or oily substances.



#### - ATTENTION

Check that all safety devices function before using the vehicle. The operator must always have the vehicle operating status under control.

Use acoustic warning devices or other signals to warn persons present before starting the vehicle.

Observe the control instruments immediately after start-up, with the engine hot and at regular intervals during use, so as to quickly identify and solve any anomalies.



#### - PROHIBITION

Do not switch the vehicle on or touch the vehicle levers if there is a danger or maintenance in progress sign inside the cab.



#### - PROHIBITION

Do not transport passengers on the vehicle, inside the driver's cab or on any other part of the vehicle (including passenger baskets).



#### - PROHIBITION

It is prohibited to use the mobile hydraulic parts of the vehicle to lift persons, except for the use envisioned in this manual.



#### - WARNING

Before starting to operate with the vehicle it is necessary to become familiar with the position and operation of all controls and instruments in a free working area without obstacles or staff, independently from the experience of the operators.



#### - ATTENTION

Make sure all safety checks described are performed before starting every job.



#### - WARNING

During work phases or movement, the luminous signals must work constantly in order to warn staff that the vehicle is moving.



#### - ATTENTION

Always maintain the safety distance suitable for the type of job and to the persons or objects present in the work area.

Always look in the direction of movement and maintain good visibility of the route.



**- DANGER**

Do not reach excessive speeds.  
Do not drive with the brake pedal pressed.



**- DANGER**

Do not use the force of impact of the vehicle to perform jobs. These vehicles are not designed for this use. Use of this type could lead to the vehicle rolling over, damage or breakage of some components and tools or serious injury to the operator.



**- DANGER**

Always operate with bonnets and door closed.  
Do not operate with vehicle protections removed.



**- ATTENTION**

When working in a crowded area, appoint a person to give signals and to co-ordinate the work area.  
Make sure that all staff follows the instructions given by the person assigned to signalling.  
Make sure signals are used that are in compliance with the provisions in force in the country where the vehicle operates.



For further information regarding the presence of a person assigned to signalling, consult the "Signalling to several vehicles" chapter.



**- DANGER**

Pay attention when working on the edge of an excavation, a road or on soft ground: keep at a safe distance, the vehicle could roll over.  
Engage a person on the ground to give signals.  
Do not forget that after heavy rain, use of explosives or earthquakes, the land in those areas is more fragile.



**- DANGER**

When working on the upper part or inside of the floors of a building or other structures, check the capacity and stability of the same before starting the operations. There is a risk that the buildings may collapse, obviously causing serious injuries and damage.



**- DANGER**

Working on slopes can be dangerous. The conditions of the land change according to atmospheric conditions (e.g. rain, snow, ice). Pay great attention to the conditions of the land on which work is being performed and proceed at low speed.



**- ATTENTION**

Move slowly over grass, leaves and wet steel sheets. With a slight slope there is also the risk of the vehicle slipping or losing its equilibrium and rolling over.



**- ATTENTION**

The tipping conditions of the vehicle can vary depending on the features of the ground, environmental conditions and the type of work.  
Complying with all the safety instructions contained in this manual reduces risks for the vehicle and for the operator in most of the operating conditions carried in the manual.







## 8.2 Safe work procedures for the man baskets



For details regarding the procedures to be followed during operation, refer to the Use and Maintenance Manual of the vehicle on which the equipment will be installed.



### - PROHIBITION

THE MACHINES AND THE EQUIPMENT CANNOT BE MODIFIED WITHOUT THE MANUFACTURER'S AUTHORIZATION.

It is prohibited to modify the structure of the equipment or the regulation of the safety devices of the various components.

Do not modify the structure or the adjustment of the various vehicle or equipment components so as not to jeopardise own safety and that of others. The same is valid for the deactivation or modification of the safety devices present.



### - ATTENTION

Any modification made to the man basket relieves *DIECI S.R.L.* from all liability deriving from consequent damage or injury.

It is only possible to use certified man baskets on DIECI vehicles and envisioned for the vehicle itself. The Manufacturer will not be liable in the event of modifications and use of the man basket without its prior consent.



### - ATTENTION

When using this machine, carefully follow the diagrams corresponding to the man basket installed.



### - PROHIBITION

It is strictly forbidden to operate if the bearing capacity diagrams relative to the man basket that you are about to use are not available.



### - WARNING

The indications supplied by the vehicle anti-tilting over system must be considered valid for standard working conditions, on flat, solid ground and with instruments operating and calibrated correctly. In all cases, the values indicated by the capacity diagrams must be respected and never exceeded.



### - ATTENTION

The equipment assembled on the vehicle can only be used on hard ground and with the vehicle braked, levelled, secured and with a maximum gradient allowed of 2°.



### - ATTENTION

The equipment installed on the vehicle must be used exclusively by skilled and authorized staff, which must have read this manual. In the event of circulation on roads, refer to the vehicle Use and Maintenance Manual, assuring that the operator has a driving licence in compliance with the Standards in force in the country of use (B or higher for ITALY) and that the boom of the vehicle is in completely retracted position.



### - WARNING

Before starting to use the vehicle and relative equipment or before performing particularly complex or dangerous manoeuvres, it is necessary to practice with the vehicle in a free work area without obstacles.



### - PROHIBITION

Do not install or use equipment on vehicles with unsuitable capacity.



### - PROHIBITION

NEVER exceed the bearing capacity limits of the vehicle on which the equipment is installed.



### - ATTENTION

If the equipment capacity is below the vehicle capacity, do not ever exceed the bearing capacity of the equipment.



**- PROHIBITION**

NEVER exceed the bearing capacity limits of the equipment mounted, if the capacity is lower than the vehicle capacity limits.



**- PROHIBITION**

Do not exceed vehicle stability limits, paying attention to the barycentre of the large loads during handling.



**- ATTENTION**

In the event of bad visibility of the area, use a person on the ground to co-ordinate movements and the manoeuvres to be performed and monitor the area, keeping all persons away. The person on the ground must be at a safe distance from the moving vehicle and inform any staff in the surrounding area before every manoeuvre.



**- DANGER**

Never take the equipment into the proximity of naked flames.



**- ATTENTION**

It is mandatory to fasten the safety belts (III cat. PPE) and secure yourself using the special hook.



**- ATTENTION**

Always make sure that the load placed inside the man basket cannot overflow or fall down on the ground. If the load falls down totally or partially, it may cause damages to persons or property because the basket may oscillate, exposing the operator to the risk of falling and the machine may tilt over.



**- PROHIBITION**

It is strictly forbidden to increase the operating range or height of the man basket using additional equipment such as steps, buckets, boxes, shafts or similar items).

It is strictly forbidden to add any item that may increase the wind load of man baskets (like advertising posters etc.)



**- PROHIBITION**

It is strictly forbidden to access or exit the man basket when the latter is lifted and moving.



**- PROHIBITION**

It is strictly forbidden to overload and apply excessive stress on the cross structure of the man basket.



**- PROHIBITION**

Do not ever operate the basket from the ground when there are persons inside the basket, unless you must carry out an emergency procedure.



**- PROHIBITION**

It is strictly forbidden to exceed the bearing capacity limit of the man basket indicated in the documentation supplied with the vehicle; if the weight is higher, the vehicle enters in emergency state and the man basket controls are disabled.



**- PROHIBITION**

Do not use the boom unit to access or exit the man basket.



**- ATTENTION**

Keep both feet properly anchored to the floor of the man basket.

Pay utmost attention when accessing and exiting the man basket. Always keep at least three contact points.



**- DANGER**

When the equipment is moving, do not let any part of the body to protrude over the guards.



### - ATTENTION

When driving, pay attention to obstacles around the vehicle as well as those off the ground. When the man basket is raised or lowered, check the distance over, at the sides and below the same.



### - PROHIBITION

It is strictly forbidden to use the man basket as a crane, to lift and handle loads.



### - ATTENTION

The work area of the man basket must be properly delimited and an operator must always be present on the ground to monitorize the area and communicate with the personnel located inside the man basket.



### - WARNING

During temporary standstill or when the job is finished, lower the boom and place the man basket on the ground, signalling its presence using the relevant signs.

Protect the man basket and the push-button panel when it is about to be stored for prolonged periods.



### - ATTENTION

Before handling the man basket, always check that there is no person within the range of action of the vehicle or in the work area. Consider the clearance of the equipment installed and the load handled.



### - DANGER

In the event of adverse weather conditions (e.g. wind blows), pay particular attention. For further information, consult the "Working in windy conditions" chapter.



### - PROHIBITION

Do not stop under the suspended man basket and in the vicinity of the working vehicle.



### - DANGER

Given their dimensions with the boom completely lowered and retracted, some man baskets can interfere with the tyres, parts of the vehicle where they are installed or touch the ground. During movement in these cases, lift and extend the boom by the amount required to eliminate this interference.



### - PROHIBITION

Do not rest the boom or the man basket against any structures to stabilise the load or to support the structures themselves.



### - ATTENTION

Always check the dimensions of the man basket to be handled so as not to collide with other structures or persons.

When driving, pay attention to obstacles around the vehicle as well as those off the ground. When the man basket is raised or lowered, check the distance over, at the sides and below the same.



### - WARNING

During temporary standstill or when the job is finished, lower the boom and place the man basket on the ground, signalling its presence using the relevant signs.



### 8.2.1 Safety harnesses

The man basket can be used only if the personnel is provided with a suitable safety harness properly fastened to the man basket using the special hooks and preset connections.

The harness must be applied properly by the operator.

For the man basket (EWP) you must only use harnesses with rear attack UNI EN 361:2003 (Fig. 1-J0204).

It must be fastened to the hooks/slots provided on the man baskets by means of a retaining cord UNI EN 358:2001 (Fig. 2-J0204) that can be adjusted according to the operating height of the man basket.



#### - ATTENTION

The harnesses used inside the man basket must have an appropriate length in order to prevent the persons from falling down instead of protecting them.



#### - PROHIBITION

Various safety devices with bumpers cannot be used because the working height of the platform is unknown.



#### - DANGER

Before using the man basket, check that the belts are properly fastened, adjusted, hooked and secured to the man basket. The site or safety supervisor must ensure that the operators have performed all the harnessing procedures correctly before authorizing the use of man basket.



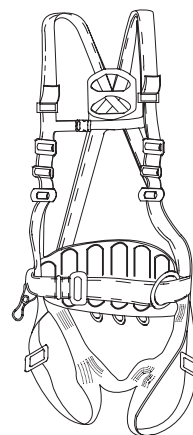
#### - ATTENTION

During the use of man basket, it is mandatory to ensure a person on the ground.

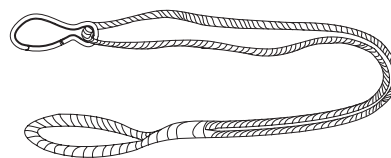


#### - ATTENTION

The safety harness is a strictly personal equipment and must be preserved carefully and maintained in a good condition. It must not have any cut, abrasion, rub, fray or any other damage that may affect the regular operation. The same regulations apply to the fastening equipment such as hooks, cords, etc.



1-J0204



2-J0204





### 8.2.2 Access



#### - PROHIBITION

It is strictly forbidden to access or exit the man basket if the latter is not placed on the ground.



#### - DANGER

Pay utmost attention when accessing or exiting the basket; Always stay towards the inner part of the basket and keep the "three contact points" keeping both hands and one foot or one hand and both feet into contact with the basket during the ascent and descent of the same.

#### To access the basket, proceed as follows:

1. Make sure that the machine is levelled and placed on a flat surface
2. Make sure that the basket is properly installed and fastened with the safety pins to machine's boom
3. Check that the electric connections have been made correctly
4. Make sure that the boom of the machine on which the basket is installed has been completely retracted and lowered
5. Make sure that the machine's engine is shut down or the stationary brake is connected
6. Wear the appropriate PPE
7. Open the basket door
8. Enter the basket using the handles and steps
9. Close the door
10. Check that the door is properly closed
11. fasten the safety harnesses to one of the hooks provided and marked by special labels



#### - DANGER

Before using the platform, make sure that all doors are closed and fastened correctly into position.



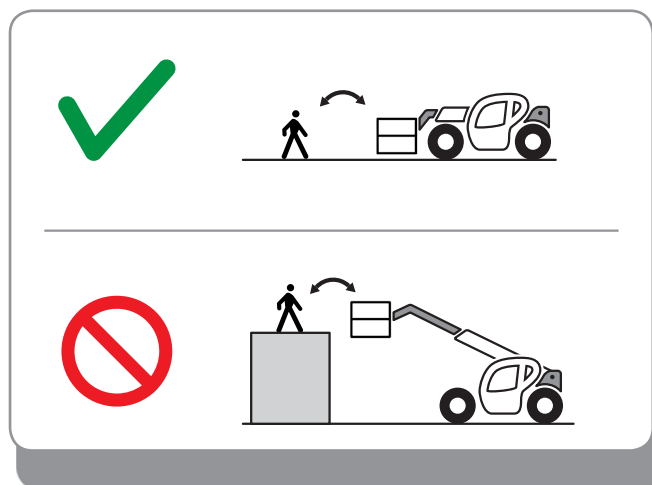
#### - DANGER

Check that all the operators in the basket are equipped with the appropriate PPE and are properly secured to the special supports.



#### - PROHIBITION

It is strictly forbidden to lock the doors in open position.





#### - PROHIBITION

It is strictly forbidden to open the doors for performing operations or to move the material when the basket is above the ground.

#### 8.2.3 Exit



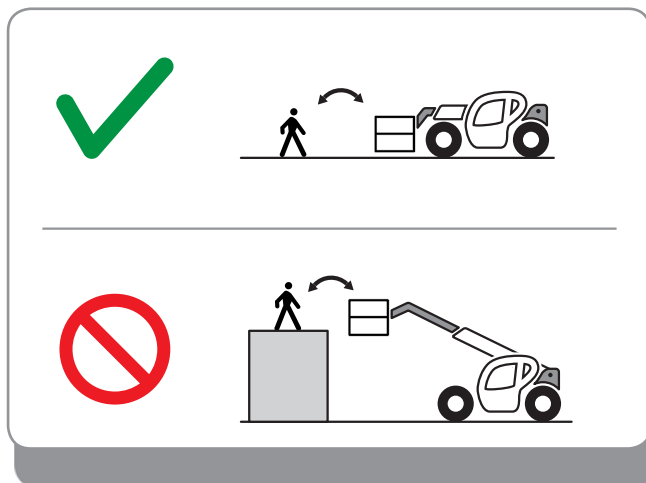
#### - PROHIBITION

It is strictly forbidden to access or exit the man basket if the latter is not placed on the ground.



#### - DANGER

Pay utmost attention when accessing or exiting the basket; Always stay towards the inner part of the basket and keep the "three contact points" keeping both hands and one foot or one hand and both feet into contact with the basket during the ascent and descent of the same.



#### To exit the basket, proceed as follows:

1. Make sure that the boom of the machine on which the basket is installed has been completely retracted and lowered
2. Make sure that the machine's engine is shut down or the stationary brake is connected
3. Release the safety harnesses from the basket hooks
4. Open the basket door
5. Exit the basket using the handles and steps
6. Close the door

## 9 EMERGENCY PROCEDURES

### 9.1 Emergency stop

During the regular work cycle it is allowed to stop movement by releasing the control: stopping is immediate.

In the event of hazard or emergency situation, the machine or equipment operation can be stopped using the emergency push-button (Fig. 1-K0200); by pressing the stop push-button, the machine and the equipment stop immediately.

The emergency stop push-button is located in the cab next to any control position provided on machine or equipment.



#### - WARNING

**Use of the Emergency stop push-button is only recommended if an immediate danger exists for the operator, the load and/or the integrity of the equipment or the machine.**

The pressure exerted on the Emergency stop push-button cuts off the electric power supply and consequently switches the vehicle off completely.



#### - DANGER

**After a stop caused by the Emergency stop push-button, return to normal work conditions is only possible after:**

- the removal of the cause of stopping
- release of the Emergency stop push-button

To release the Emergency stop push-button you must turn the button in the direction shown by the arrows located above the button.



1-K0200

## 9.2 Recovering the basket in case of emergency

In emergency conditions (e.g. Accident or indisposition of the operator in the basket), the basket can be recovered by operating from the machine.

Then, the safety supervisor on the ground can:

1. Open the cab.
2. Turn on the machine.
3. Set the "Forks" operating mode to enable the cab controls.
4. Use the joystick to bring the man basket with the operator on the ground.



### - ATTENTION

The boom moving speed in "Forks" mode is higher than the speed allowed during the normal use in "basket" mode; pay particular attention when handling the basket by means of the cab controls during emergency situations. Carry out slow and gradual movements in order to prevent further damage to operators in the basket.

## 9.3 Recovering the basket with manual pump in case of emergency

If the driving force is missing during machine use, causing the man basket blockage, it is possible to use the manual system to bring the boom and the operators on the ground in safety conditions. To carry out this emergency operation, use the special emergency pump.



### - DANGER

When the emergency pump is used, the anti-tipping systems are disabled.

It is mandatory to consult the bearing capacity diagram (located in the cab notepad and in the Use and Maintenance manual) before completing any manoeuvre using the distributor levers. This way, using the inclinometer and the letters on the boom, it is possible to know the exact position of the basket and the work area within which it may operate. During recovery of the basket, there must be no additional movements that may worsen the stability of the vehicle, due to the existence of tipping hazard.



### - ATTENTION

The emergency operations must be performed by qualified, experienced operators, authorised by the safety manager.



### - DANGER

Never attempt to exit the basket using makeshift means or systems that can expose the staff to personal risk.

## 9.4 Basket recovery with manual system

All vehicles equipped with basket or set up for to use it, are equipped with a manual pump to recover operators in case of emergency (vehicle malfunctioning).

The manoeuvres allowed with the emergency pump are:

- retract boom extension
- lower the boom

### 9.4.1 Recovery procedure for standard distributor



#### - ATTENTION

Two qualify, expert operators authorised by the safety manager are required to perform the retraction manoeuvre.

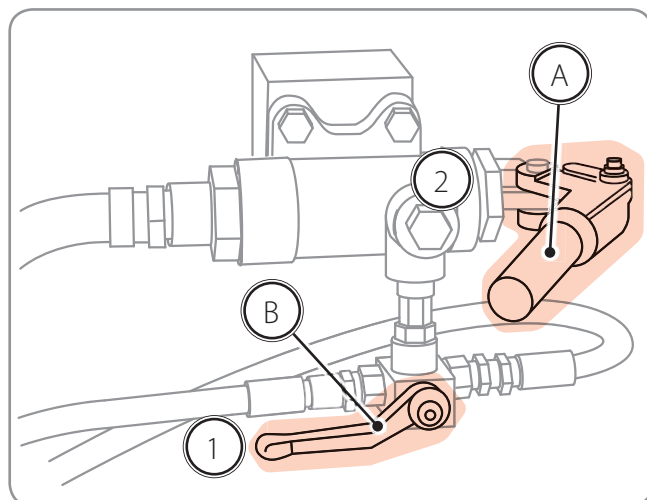
To retract the boom, carry out the procedure given below.

1. Switch on the vehicle's engine
2. Recover the pump activation bar in the toolbox
3. Fix the bar to the pump (Fig. 1-K0201, pos. A)
4. **To retract the boom:**
  - Operator 1 (Fig. 1-K0201):
    - Position the lever "B" in position "1"
    - Use the hand pump "A" to directly retract boom extension.
5. **To lower the boom:**
  - Operator 1 (Fig. 2-K0201):
    - Position the lever "B" in position "2" to lower the boom.
    - Pump the hand pump.
  - Operator 2 (Fig. 3-K0201):
    - While using the pump, move the joystick "C" forward to lower the boom.
6. Having completed the recovery manoeuvre, move the lever "B" to position "1" (Fig. 1-K0201).

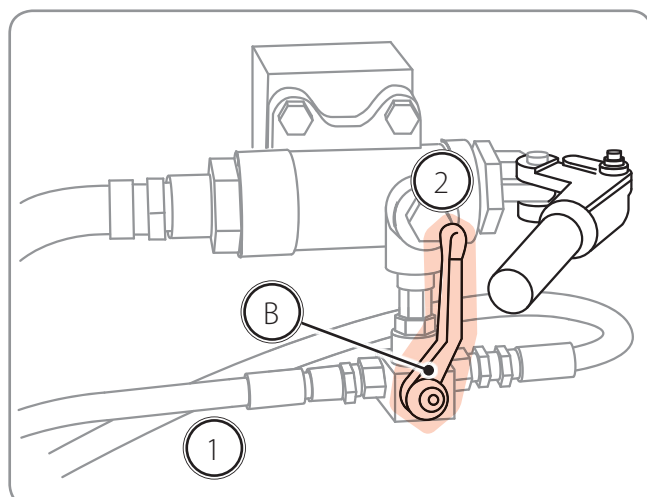


#### - WARNING

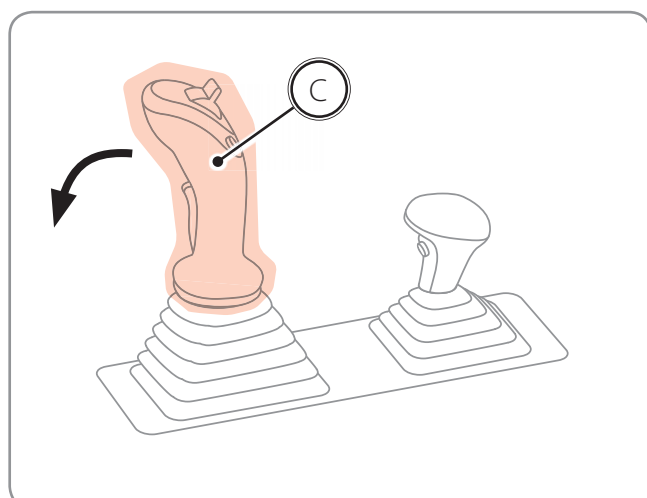
Move the basket by alternating extension retraction and boom descent movements, in a way to remain always within the capacity diagram.



1-K0201



2-K0201



3-K0201

## 9.4.2 Recovery procedure for proportional electro-hydraulic distributor \*



\* The proportional distributor is an optional accessory installed on demand by the customer.



### - ATTENTION

Two qualify, expert operators authorised by the safety manager are required to perform the retraction manoeuvre.

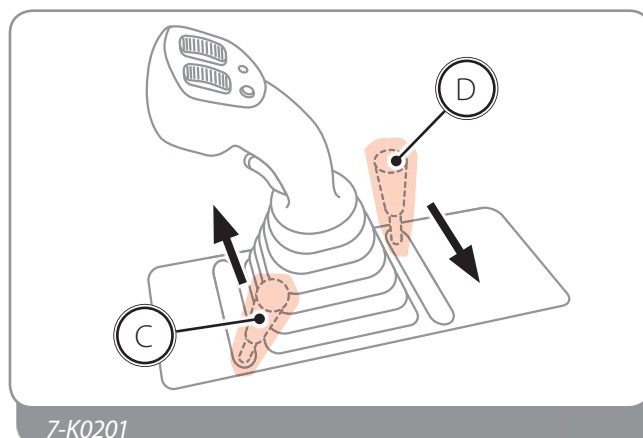
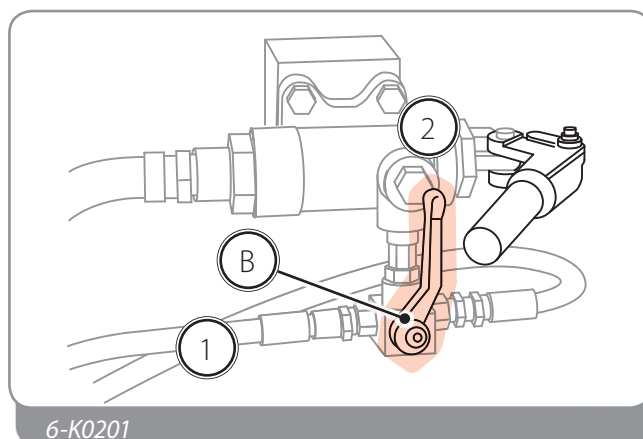
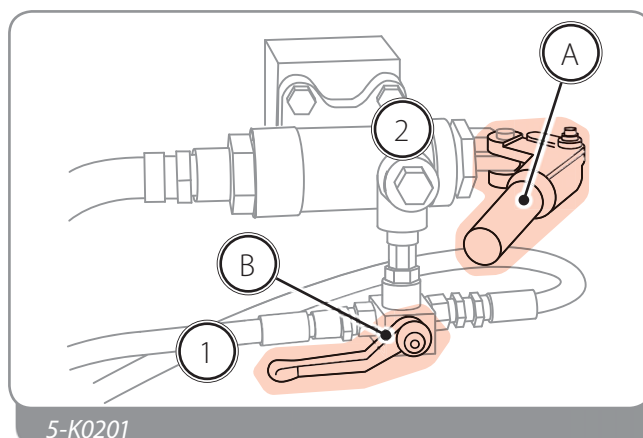
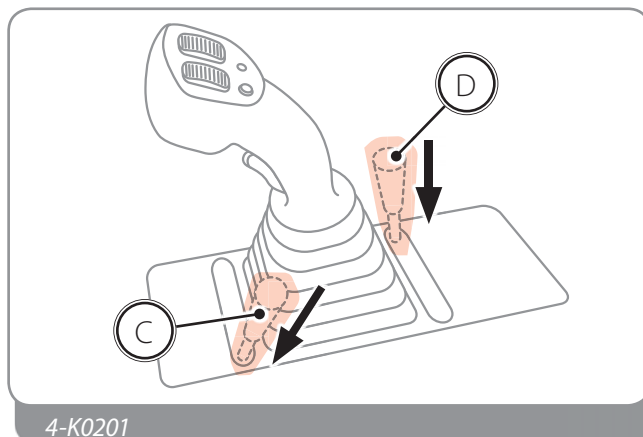
To retract the boom, carry out the procedure given below.

1. Switch on the vehicle's engine
2. Recover the pump activation bar in the toolbox
3. Screw the levers "C" and "D" in the joystick (Fig. 4-K0201)
4. Fix the bar to the pump "A" (Fig. 5-K0201)
5. **To retract the boom:**
  - Operator 1 (Fig. 5-K0201):
    - Position the lever "B" in position "1"
    - Pump the hand pump moving the lever.
  - Operator 2 (Fig. 7-K0201):
    - While using the pump, move the lever "C" to the right to retract boom extension
6. **To lower the boom:**
  - Operator 1 (Fig. 6-K0201):
    - Position the lever "B" in position "2"
    - Pump the hand pump moving the lever.
  - Operator 2 (Fig. 7-K0201):
    - While using the pump, move the lever "D" to the left to lower the boom
7. Having completed the recovery manoeuvres, move the lever "B" to position "1".



### - WARNING

Move the basket by alternating extension retraction and boom descent movements, in a way to remain always within the capacity diagram.



## 9.5 Man basket recovery in case of a fault

Proceed as described below to retract the boom manually.

1. Switch the vehicle's engine off
2. The first operator must remove the rod from the tool box and install it on the emergency pump (Fig. 1-K0202, pos. 1)
3. The second operator must act on the levers of the distributor, which is on the left side of the vehicle (Fig. 2-K0202), with regards to the desired movement
4. Activate the emergency pump to implement the movements. The first operator must push the rod up to end run, first from one side and then the other to supply pressure to the system. The operation must be performed until the operation is completed.
5. While using the emergency pump, the second operator will use the lever on the distributor as follows:
  - Blue lever "A"
    - Upwards: boom descends.
    - Downwards: boom rises.
  - Black lever "B"
    - Upwards: turret rotates to the right.
    - Downwards: turret rotates to the left.
  - Red lever "C"
    - Upwards: boom extends.
    - Downwards: boom retracts.



### - PROHIBITED

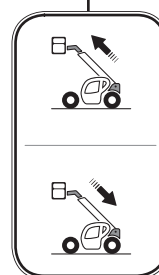
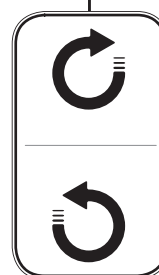
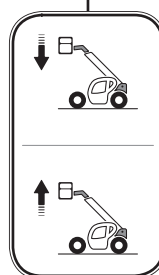
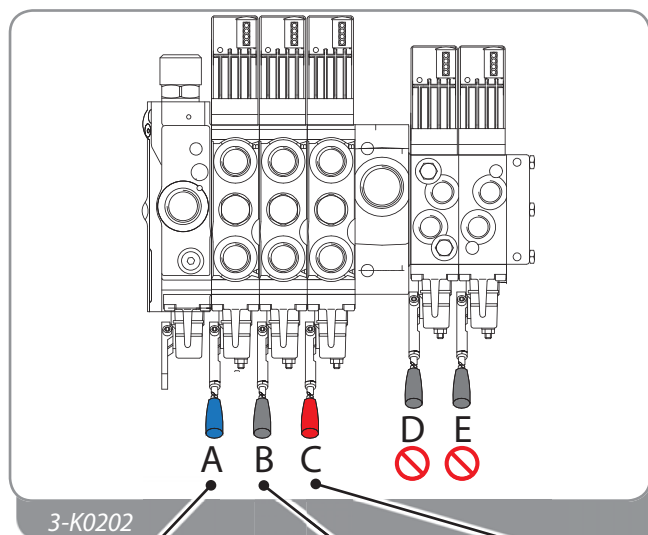
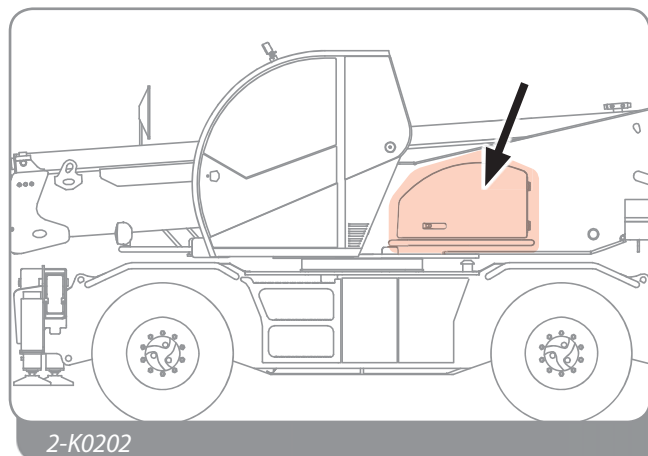
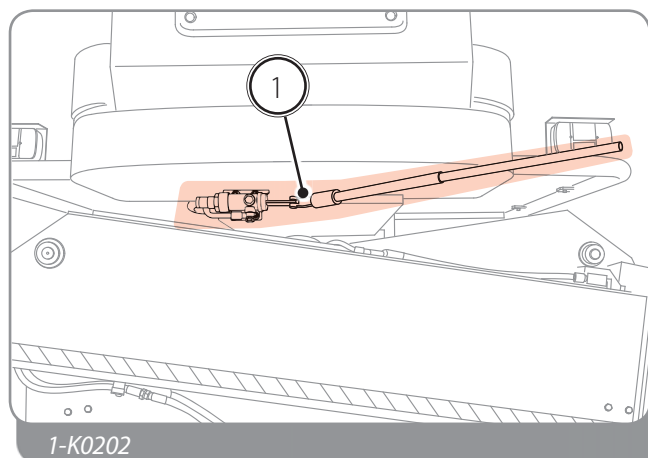
It is strictly prohibited to position and move the lever in positions "D" and "E" of the distributor, which are intended for swivelling and services. Danger of overturning the basket.

6. Once recovery is completed, everything must be reset to the start-up conditions; close the door of the distributor system and set the rod in the tool box.



### - WARNING

Act on the lever of the distributor before pumping in order to perform the desired manoeuvre. Pumping without moving the lever shall drain the oil of the distributor, which leads to a greater effort being required to perform the manoeuvres.







## 9.6 Restoring the tunnel basket manoeuvres \*

**\* This function is available only for baskets designed for tunnels.**

During basket use, if the anti-collision limit switches bump into structures or objects, all basket functions and movements will be stopped.

To restore the basket use you must press the manoeuvre reset button (Fig. 1-K0204) and keep it pressed while carrying out the movements, using the push-button panel (Fig. 1-K0204), necessary to move the basket away from the structure.



### - WARNING

Before using the "Manoeuvre reset" button, check the cause of blockage and carefully assess the manoeuvres to be carried out for restoring the safe work conditions.



### - PROHIBITION

It is strictly prohibited to keep the manoeuvre reset button pressed during normal use.



### - DANGER

When using the "Manoeuvre reset" button, pay utmost attention to the manoeuvres to be carried out for restoring the safe work conditions.



1-K0204





## 10 MAINTENANCE AND CONTROL LOGS

The Maintenance Log and Control Log are to be considered integral parts of the machine and equipment. These logs must therefore accompany the machine and equipment throughout their service life up to the final disposal.

### 10.1 Types of logs

#### 10.1.1 Control Log

The Control Log contains the scheduled main inspections **on the safety devices** of the equipment, recommended by **DIECI S.R.L.**. These inspections guarantee that the safety devices work properly.



#### - ATTENTION

**The inspections contained in the Control Log form part of the routine maintenance operations contained in the Equipment Maintenance Log.**

#### 10.1.2 Maintenance Log

The Maintenance Log contains all the scheduled maintenance interventions with reference to normal and not adverse conditions of use. The intended maintenance must be performed more regularly, even daily, if required, in particularly adverse conditions of use (humidity, mud, sand, very dusty, etc.).



**Contact the DIECI service centre to establish the adequate schedules when operating in particularly adverse environments.**

Such maintenance allows the machine or equipment to be serviced in optimal efficiency conditions.

### 10.2 Instructions to complete the logs

#### 10.2.1 Warnings on the logs

- The logs must be completed in compliance with requirements set out in the Essential Safety Requirement 4.4.2.b of Annex I of Machinery Directive 2006/42/EC, in order to prove that all maintenance and control operations regarding machine safety have been carried out correctly.
- Besides the activities regarding the service life and maintenance and use of the machine (replacing parts, servicing, faults, etc.), the logs must also include all the inspections stipulated by the regulations in force in the country where the machine is used.
- The name of the technician and the service date must also be indicated clearly.
- It is recommended to complete, update and store this control log with care for the duration of the service life of the machine.



#### - NOTE

**A few pages are found at the end of the manual for these logs to be completed.**

### 10.2.2 Completing the logs

Different parts of each log (Fig. 1-L0000) are completed:

1. Log data
2. Operations to be implemented
3. Device or component to which the operation refers to
4. Space that indicates the mandatory operation marked with an "o" and the possibility of taking note of special maintenance, which is not included in the log.

### 10.2.3 Key of the logs

Symbol	Operation
	Control - Inspection
	Refuel
	Adjustment
	Cleaning
	Replacement
	Lubrication
	Intervention at an authorised service centre

1

REGISTRO DI CONTROLLO

Scheda controllo n°

Data del controllo

Matricola macchina:

Nome del tecnico controllore

Ore della macchina

Nome della ditta controllore

2

Controlli	Note	Q	U	A	L	R	I	S	C
<b>Controlli obbligatori da fare ogni 250 ore o ogni 2 mesi</b>									
Verifica indicatore momento carico longitudinale									
Allarme acustico sistema antiribaltamento									
Allarme visivo sistema antiribaltamento									
Blocco del movimento sistema antiribaltamento									
Cinture di sicurezza									
Controllo sulla macchina \ sull'attrezzatura presenza e stato conservazione									
Decalcomanie									
Controllo sulla macchina \ sull'attrezzatura presenza e stato conservazione Diagrammi di portata									
Controllo sulla macchina \ sull'attrezzatura presenza e stato conservazione Manuale di uso e manutenzione									
Controllo sulla macchina \ sull'attrezzatura presenza e stato conservazione Targhette identificative									
Freno di stazionamento									
Micro sedile uomo presente									
Pompa recupero di emergenza (se presente)									
Pulsante di recupero emergenza su joystick									
Pulsante joystick uomo presente									
Segnalazione acustica retromarcia inserita									
Sterzatura tre modi di funzionamento									
Taratura livella a bolla									
Verifica corretto funzionamento modalità di lavoro relativa all'attrezzatura installata									
Verifica funzionamento pulsante arresto di emergenza									
<b>Controlli obbligatori da fare ogni 400 ore o ogni 3 mesi</b>									
Punti di attacco, usura e registrazione catene (se presenti)									
Forche (se presenti)									
<b>Controlli obbligatori da fare ogni 500 ore o ogni 6 mesi</b>									
Pressione massima impianto idraulico									
Pressione taratura idroguida									
Valvole di blocco dei martinetti									

Note

Timbro e firma

1-L0000

### 10.3 Control register: checks and due dates



#### - NOTE

At the end of the manual you will find a few pages where you can fill in these registers.

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		<input type="radio"/>					
Control of the machine / equipment for the presence and state of preservation safety Decals		<input type="radio"/>					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		<input type="radio"/>					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		<input type="radio"/>					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		<input type="radio"/>					
Ascent/descent limit switches (if present)		<input type="radio"/>					
Load fastening hook (if present)		<input type="radio"/>					
Load limiter (if present)		<input type="radio"/>					
Pull limiter (if present)		<input type="radio"/>					
Front infeed micro switch closed (if present)		<input type="radio"/>					
Micro switch for detecting the locking pins (if present)		<input type="radio"/>					
Maximum hydraulic plant pressure (if present)		<input type="radio"/>					
Emergency stop button (on baskets)		<input type="radio"/>					
Hooking points for safety harnesses (on baskets)		<input type="radio"/>					
Anti-collision sensors (if present)		<input type="radio"/>					
Spirit level calibration (if present)		<input type="radio"/>					
Extensimeter transducer (if present)		<input type="radio"/>					
Shut-off valve (if present)		<input type="radio"/>					
Load check valve (if present)		<input type="radio"/>					
Checking the compliance of machine work area with the equipment installed		<input type="radio"/>					
Checking the compliance of machine operating mode with the equipment installed		<input type="radio"/>					
Checking the operation and integrity of electrical connections and circuits		<input type="radio"/>					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		<input type="radio"/>					
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		<input type="radio"/>					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		<input type="radio"/>					

Controls	Notes						
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

## 10.4 Maintenance Register: interventions and due dates



### - NOTE

At the end of the manual you will find a few pages where you can fill in these registers.

Maintenance	Notes						
<b>According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered</b>							
Ropes and chains (if present)		o					
Checking the wear condition		o					
<b>Every 10 hours or every month</b>							
Metal framework, no cracks		o					
Decals		o					
Safety devices		o					
Ropes and chains (if present)		o					
Hooks (if present)		o					
Structural integrity		o					
<b>Every 50 hours or every month</b>							
Mechanical joints							o
Ropes and chains (if present)							o
Nuts and bolts coupling torque				o			
Hydraulic fitting coupling torque				o			
Hydraulic plant leaks		o					
Ropes and chains (if present)			o				
<b>Every 250 hours or every 2 months</b>							
Hydraulic plant-valves-distributors-pipes etc. efficiency.		o					
Hydraulic oil						o	
<b>Every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
<b>Every 1000 hours or every year</b>							
Ropes and chains (if present)						o	
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					





## 11 MAINTENANCE

### 11.1 Maintenance warnings

This equipment has been designed and built to provide maximum performance, savings and facilitate its operation in various working conditions. Before delivery, the equipment was tested both by the Manufacturer and by the Dealer to ensure its maximum condition. To preserve these conditions and guarantee problem-free operation, it is important to carry out the routine maintenance operations described in this manual at an authorised DIECI dealer in accordance with the maintenance schedule provided.

This section of the Manual provides all the maintenance prescriptions necessary for maintaining the DIECI equipment in perfect working condition.

The vehicle must receive regular routine maintenance in order to give the best results. It is recommended that all services be carried out as prescribed in the service schedule suggested by DIECI. Remember that it is the owner's and/or user's responsibility to keep the equipment in safe working condition and suitable to be driven on public and private roads.

Proper vehicle maintenance not only improves equipment reliability but it also preserves equipment value through time.



#### - ATTENTION

**Maintenance or adjustment operations not described in this chapter or in the rest of the manual must be carried out by qualified personnel respecting the conditions of safety in order to guarantee their safety and the safety of others. Only DIECI Dealer maintenance staff has been trained to carry out said interventions and only they have the special equipment and tools necessary to guarantee maximum safety, precision and efficiency.**



It is mandatory to read and understand the "Safety Standards" chapters before reading the "Maintenance" chapter.



#### - PROHIBITION

It is prohibited to start equipment maintenance if you have not read and understood this chapter.



Consult the Maintenance Register to find out about maintenance operations and maintenance times.



#### - ATTENTION

All maintenance operations must be recorded in the relevant Maintenance Register.



#### - ATTENTION

Whenever operating in corrosive environments, it is important to intervene with suitable and timely maintenance in order to prevent excessive wear of the equipment.



#### - ATTENTION

Use suitable PPD during the various control and maintenance operations of the vehicle.



#### - PROHIBITION

In the event of malfunction, do not use the equipment until it has been repaired.



#### - ATTENTION

Every modification made to the equipment leads to a new verification of conformity. This procedure is also valid in the event of repairs using non-original spare parts.

Avoid accidents during maintenance



### **11.1.1 Always keep the work site clean and organised in order to guarantee safe operation of the vehicle.**

- Do not leave tools or other instruments laying around in a disorderly fashion at the work site.
- Clean traces of grease, oil and other substances that could cause slipping.
- Always deposit cloths soaked with grease and/or inflammable materials in a safe container to ensure safety at the work site.
- Only use attachments that are appropriate for the job and ensure their proper use. The use of damaged, defective, unsuitable and poor quality equipment may cause serious injury.
- Do not hit the equipment or its parts with a hammer or any other instrument, as projected fragments could cause injury.
- Carefully clean the equipment before repair or maintenance work is carried out.
- Ensure you are familiar with maintenance procedures before starting work.
- Keep the work zone clean and dry.
- Replace faulty or worn components.
- Eliminate any grease and oil accumulations and deposits.
- Do not lubricate or perform maintenance when the vehicle/accessory is moving.

#### **Before performing maintenance:**

1. Park the vehicle, on which the equipment is installed, on flat land.
2. Take the starter switch key to the engine stop position.
3. Remove the start key.
4. Discharge residual pressure from the hydraulic plant.
5. Disconnect the electric and hydraulic equipment connections (if present).
6. Apply a "maintenance in progress" sign. This sign can be applied to the joysticks or the cab door.
7. Disconnect the vehicle battery cut-off device



#### **- ATTENTION**

**On conclusion of the maintenance and repairs, control that tools, cloths or other material do not remain inside the compartments or guides with moving parts.**

## 12 TECHNICAL SUPPORT SERVICE

### 12.1 Spare parts supply

**DIECI S.R.L.** guarantees the supply of original spare parts or alternative parts for 10 years from the date of the last model produced in the range of interest.



**As well as this use and maintenance manual, a spare parts catalogue is also supplied with each Dieci vehicle or equipment, so that orders can be placed for the parts necessary for repairs.**

### 12.2 Owner/ Operator Assistance

Make note of this important data before contacting your Service centre, in order to obtain maximised service assistance from your Dealer.

1. Specify your name, address and telephone number.
2. Provide the model and chassis serial number of the vehicle.
3. Indicate the purchase date and working hours.
4. Explain the type of malfunction.

Please note that only DIECI Dealers have access to DIECI client service resources. Moreover, Dealers are able to offer a variety of solutions concerning guarantee, fixed rate maintenance and safety checks including tests



#### **Servizio Assistenza Tecnico Dieci**

Via E. Majorana, 2/4  
42027 Montecchio Emilia (RE) ITALY  
Tel. +39 0522 869611  
Fax +39 0522 869744  
[service@dieci.com](mailto:service@dieci.com)

## 13 CLEANING

Clean the equipment to remove dust residues periodically and every time necessary.



### - ATTENTION

Always perform the operation after having isolated the equipment from all energy sources.



### - ELECTRIC COMPONENTS

Do not use water or steam to wash the electric plant, sensors or connectors.



### - MECHANICAL COMPONENTS

Do not clean moving parts or heated elements. Leave the components to cool down as a temperature excursion could damage them.



### - DANGER

Clean the safety decals when they are covered in mud, cement or debris.



### - PROHIBITION

Do not clean the safety decals using solvents or benzene; the decals could fade. Additional decals to those regarding attention and safety must always be treated in the same way.

### 13.1 Cleaning the safety decals



**- ATTENTION**

To ensure correct interpretation, check that they are in the correct position and are always clean.



**- DANGER**

Clean them when they are covered in mud, cement or debris.



**- PROHIBITION**

Do not clean the signs on the vehicle using solvents or benzene; the decals could fade. Additional decals to those regarding attention and safety must always be treated in the same way.

## 14 LIFTING



### - ATTENTION

Make sure that the lifting means has a capacity suitable for the weight of the equipment to be lifted.



### - ATTENTION

Make sure that ropes, chains, straps and hooks are in good working order and with bearing capacities suitable for the weight of the equipment to be lifted.

The weight of the equipment is given on the appropriate riveted metal plate. Check the clearance measurements for the maximum and minimum heights from the ground and the weight allowed.



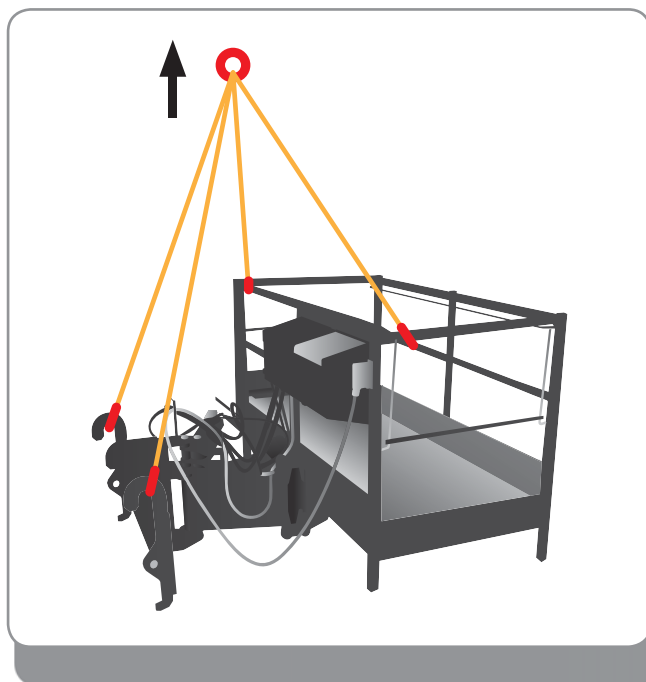
### - WARNING

Position the equipment on a support platform to facilitate handling and lifting operations.



### - PROHIBITION

It is prohibited to lift the vehicle with the equipment still installed.



## 15 TRANSPORT



### - ATTENTION

**Make sure that the means of transport has a capacity suitable for the weight of the equipment to be transported.**

When a vehicle and relative accessories are loaded or unloaded from a means of transport, the tilting hazard is always present.

Prepare a lorry or appropriate trailer for transporting the vehicle and its relative accessories.

Secure the equipment using relevant slinging systems, control that these are in good working order and suitable for the weight and dimensions of the equipment.



### - WARNING

**Position the equipment on a support platform to facilitate handling and lifting operations.**



### - PROHIBITION

**It is strictly prohibited to transport the vehicle with the equipment still installed.**



**For details regarding the procedures to be followed during transport of the vehicle, refer to the Use and Maintenance Manual of the vehicle on which the equipment will be installed.**

## 16 STORAGE

**Perform the following operations in the event of long periods of inactivity:**

- Clean all parts thoroughly and touch up any scratches in the paintwork.
- Treat all non-painted parts with anti-oxidant and non-corrosive products.
- Cover the equipment to reduce damage from weather conditions or the deposit of dust and dirt
- If possible, position the equipment on a solid and flat surface and protected from weather conditions
- If stored outside, use a wooden platform in case the temperature should drop below zero.



**If put back into service after a long period of inactivity, perform all the pre-use checks given in the relative paragraph.**

## 17 DISPOSAL OF WASTE

- Waste materials must not be dispersed in the environment, but disposed of appropriately. Waste lubricants, batteries, cloths impregnated with grease, brake pads etc. must be consigned to specialised companies, authorised for disposal of pollutant waste.
- Improper disposal of waste is a threat to the environment. The following are considered potentially dangerous waste: lubricants, fuel, refrigerant, filters and batteries.
- Do not spread waste on the land, in drains or ground water.
- Request information regarding the appropriate ways for re-cycling or disposing of the waste from the local authorities or collection centres.

### 17.1 Considerations of an ecological nature

Below find some recommendations that could be of help. Obtain information regarding the Legislative Standards in force in your country.

Request information from the suppliers of lubricant oils, fuels, anti-freeze products, soaps, etc. regarding their effect on man and nature and concerning the Standards to respect for use, storage and disposal.

- Do not top-up tanks using unsuitable pressurised cans or re-fuelling plants, which can cause considerable losses and spillage of liquids.
- Modern lubricant oils contain additives. Do not burn contaminated fuel oils and/or oils used in conventional heating plants.
- Do not disperse engine cooling liquids, engine lubricant oils, transmission oil, hydraulic oil, brake oil etc. during transfer. Put it in a safe place until disposal, which must be performed suitably as envisioned by the Legislative Standards or local provisions.
- Modern anti-freeze liquids and their solutions, such as anti-freeze and other additives, should be replaced every two years. They must not be allowed to penetrate into the ground. They must be collected and disposed of suitably.
- Do not intervene directly on air conditioning systems (optional), by opening them. They contain gases that must not be released into the atmosphere. Contact the Authorised Dealer or specialists that have special tools and which therefore must top-up the system.
- Repair any leak, cooling system defect or of the engine hydraulics immediately.

### 17.2 Protect the environment

It is illegal to pollute sewers, water courses or the ground. Use authorised tips, including places especially set-up by the municipality or workshops that have the necessary equipment for the recovery of waste oil. If in doubt, contact the municipality for clarifications on the subject.



## **18 DEMOLITION**

For the demolition of the vehicle or equipment, all components must be removed and separated into the different types of materials, which must then be destined to the respective collection centres.

The following types of material can be present:

- Ferrous metals (framework and mechanical components)
- Plastics (gaskets belts, protection)
- Electrical materials (cables, windings and similar)
- Oils and lubricants (hydraulic oil, reducer lubricants, lubricant greases)

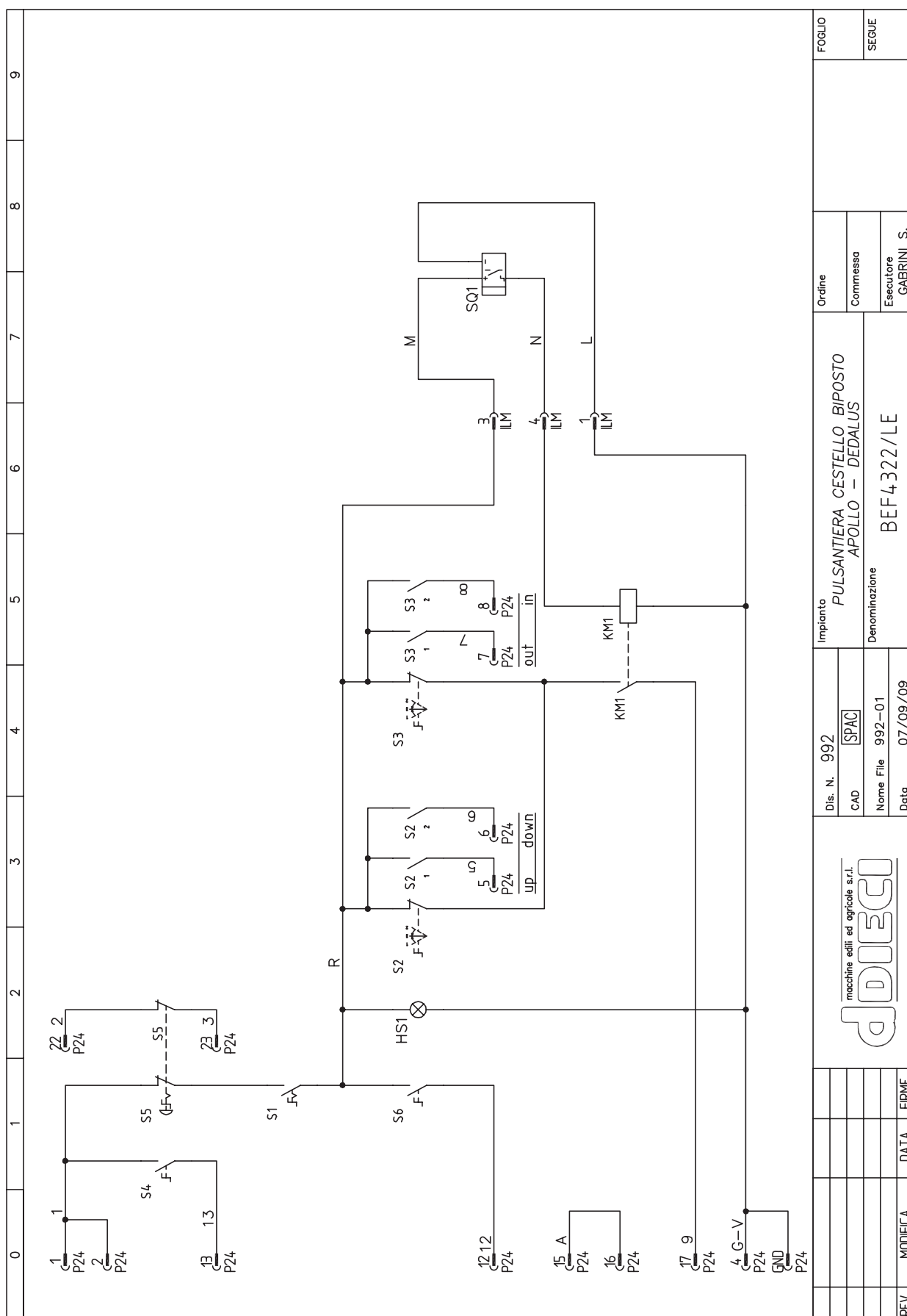


## 19 WIRING DIAGRAM

### 19.1 Wiring diagrams of Apollo and Dedalus baskets

Reference of push-button panel wiring diagram - 992\_01:

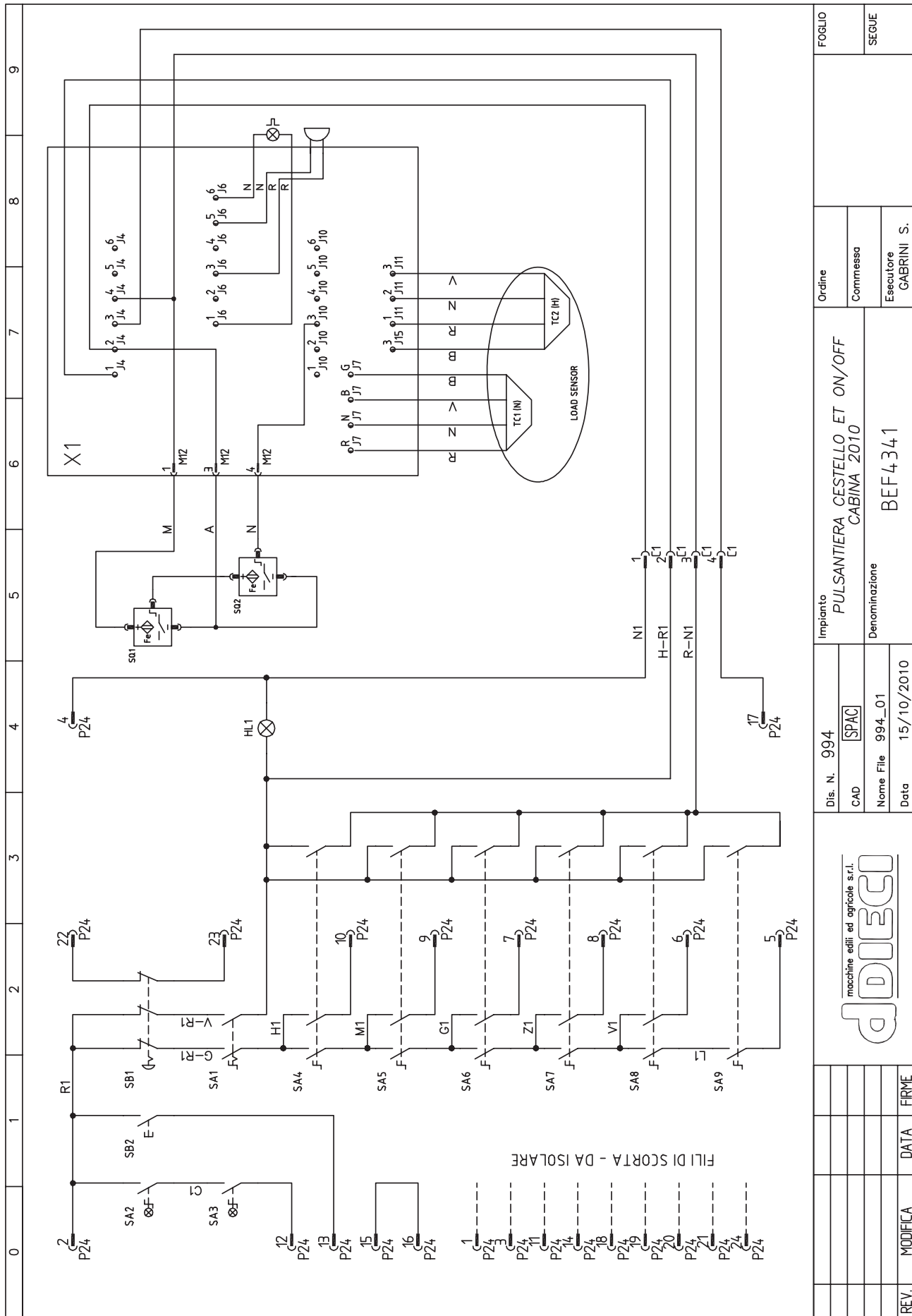
HS1	Basket pilot light ON
KM1	Movement enabling relay from selectors
S1	Selector o-1
S2	Lifting selector
S3	Extension selector
S4	Horn
S5	Emergency mushroom button
S6	Start
SQ1	Pin presence proximity switch



## 19.2 Wiring diagrams of Icarus, Runner, Samson and Zeus baskets

Reference of ON-OFF push-button panel wiring diagram - 994\_01:

	Overload pilot light
	Overload buzzer
HL1	Basket push-button panel enabled pilot light
SA1	Selector 0-1 (On-Off)
SA2	Start 1 selector
SA3	Start 2 selector
SA4	LH transfer selector
SA5	RH transfer selector
SA6	Out extension selector
SA7	In extension selector
SA8	Boom descent selector
SA9	Boom ascent selector
SB1	Emergency push-button
SB2	Horn button
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch
C1	Overload system connector
P24	Boom head cable connector
X1	Overload board



REV.	MODIFICA	DATA	FIRME	Dis. N. 994	Impianto	Ordine	Foglio
				CAD [SPAC]	PULSANTIERA CESTELLO ET ON/OFF	Commessa	SEGUE
				Nome File 994_01	CABINA 2010	Esecutore	
				Data 15/10/2010	BEF4341	GABRINI S.	

**Reference of proportional push-button panel wiring diagram - 994\_01:**

	Overload pilot light
	Overload buzzer
HL1	Anti-tilting OK
SA	Lifting selector
SA1	Selector 0-1 (On-Off)
SA2	Start 1 selector
SA3	Start 2 selector
SB	Extension selector
SB1	Emergency button
SB2	Horn
SD	Service selector
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch
C1	Overload board connector
C2	Handler connector
J1	2-direction handler
P24	Boom head cable connector
X1	Overload board
X2	Movement speed board

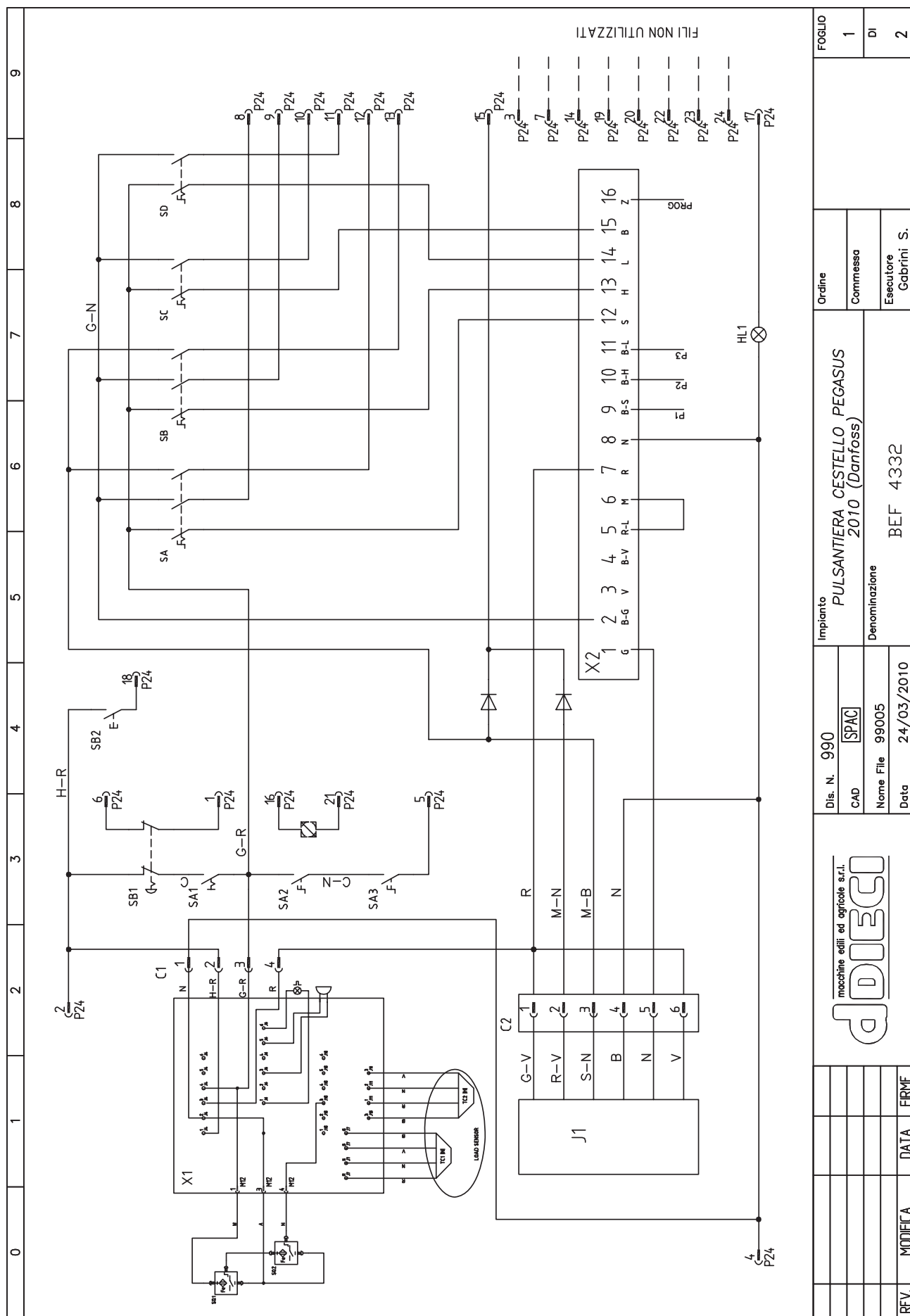




## 19.3 Wiring diagrams of Pegasus basket

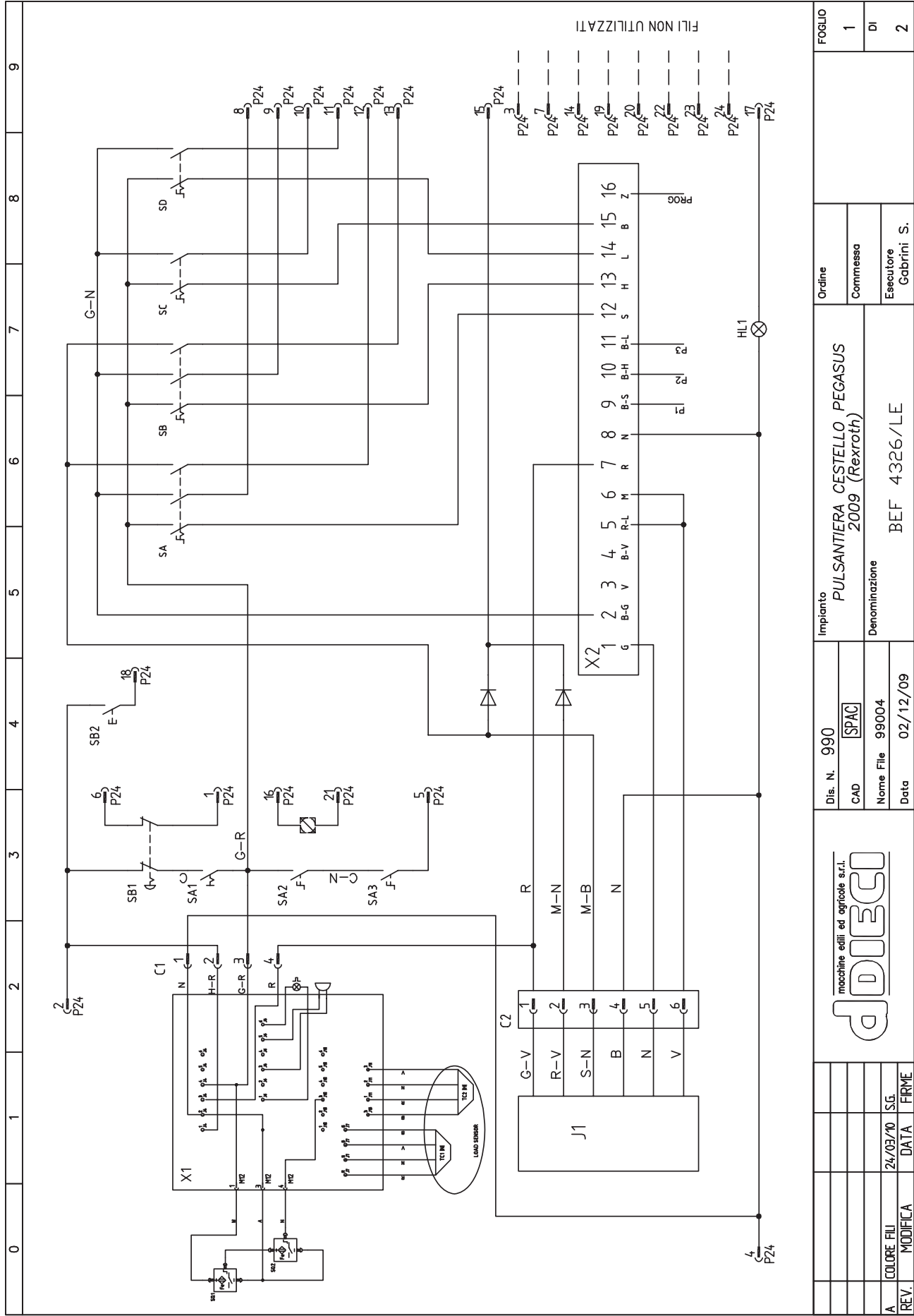
Reference of Danfoss distributor push-button panel wiring diagram - BEF4332 :

HL1	Anti-tilting pilot light OK
SA	Lifting
SB	Extension
SC	Rotation
SD	Services
SA1	0-1 (On-Off)
SA2	Start 1
SA3	Start 2
SB1	Emergency button
SB2	Horn
J1	2-direction handler
X1	Overload board
X2	Movement speed board
P24	Boom head 24-pole pin
C1	4-pole overload board connector
C2	7-pole handler Mark connector
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch



**Reference of Rexroth distributor push-button panel wiring diagram - BEF4326 :**

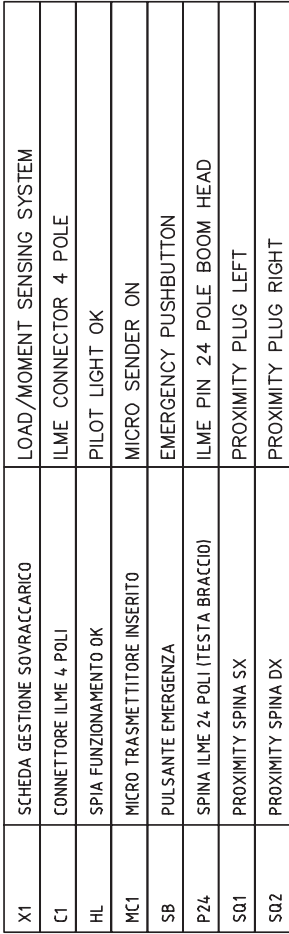
HL1	Anti-tilting pilot light OK
SA	Lifting
SB	Extension
SC	Rotation
SD	Services
SA1	0-1 (On-Off)
SA2	Start 1
SA3	Start 2
SB1	Emergency button
SB2	Horn
J1	2-direction handler
X1	Overload board
X2	Movement speed board
P24	Boom head 24-pole pin
C1	4-pole overload board connector
C2	7-pole handler Mark connector
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch



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**Reference of radio control Support push-button panel wiring diagram - BEK7023:**


X1	Overload control board
C1	4-poles ILME connector
HL	Operation pilot light OK
MC1	Micro transmitter on
SB	Emergency button
P24	Boom head 24-pole ILME pin
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch

[illegible]

## Reference of tunnel baskets wiring diagrams:

HL1	Anti-tilting pilot light OK
SA	Lifting
SB	Extension
SC	Rotation
SD	Services
SA1	0 - 1 (On - Off)
SA2	Start 1
SA3	Start 2
SB1	Emergency button
SB2	Horn
J1	2-direction handler
X1	Overload board
X2	Movement speed board
P24	Boom head 24-pole pin
C1	4-pole overload board connector
C2	7-pole handler Mark connector
SQ1	LH pin proximity switch
SQ2	RH pin proximity switch
S1	Rh front roof limit switch
S2	Lh front roof limit switch
S3	Rh rear roof limit switch
S4	Lh rear roof limit switch
SB3	Manoeuvre reset push-button



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			CAD <span style="border: 1px solid black; padding: 2px;">SPAC</span>	PULSANTIERA CESTELLO PEGASUS 2011 (Danfoss) GALLERIA		Ordine	1
			Nome File 99006	Denominazione		Commessa	DI
REV.	MODIFICA	DATA	Data 28/11/2011	BEF 4332		Esecutore Gabrini S.	2





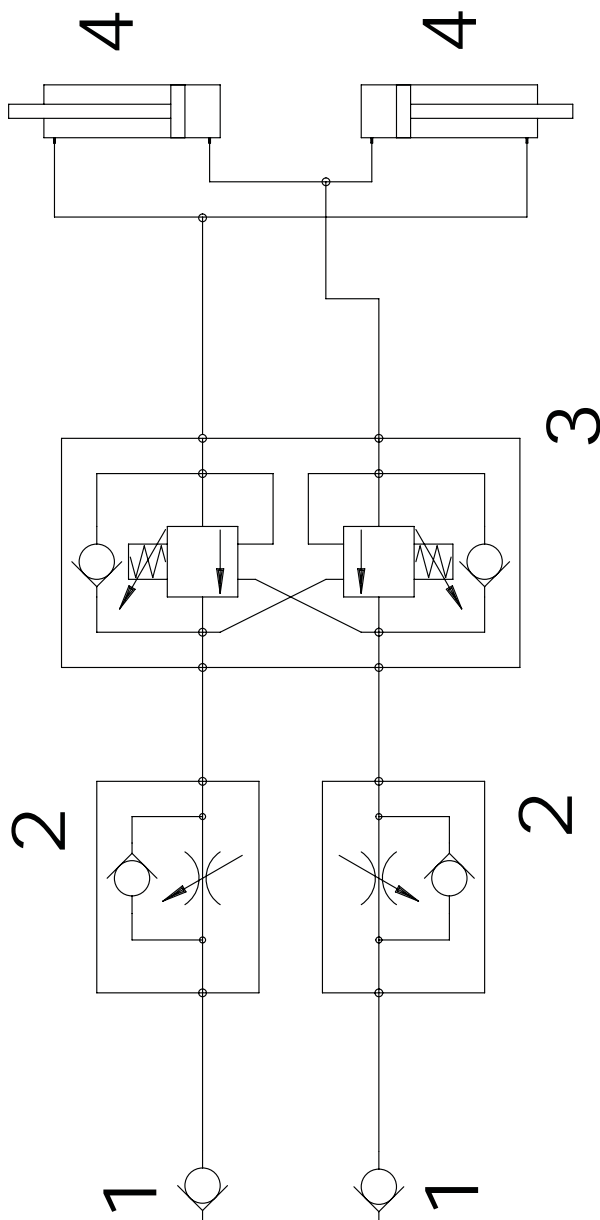


## 20 HYDRAULIC DIAGRAM

### 20.1 Hydraulic diagrams of front extendable baskets

Hydraulic diagrams of front extendable baskets:

1	Quick couplings
2	Unidirectional choker
3	Shut-off valve
4	Basket opening cylinder

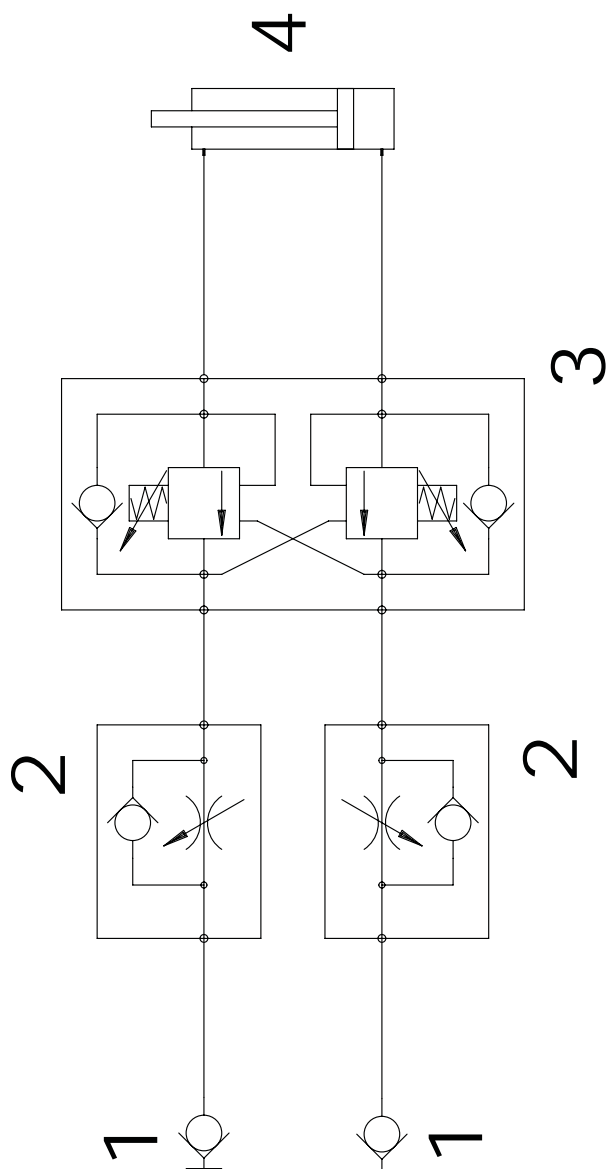


4	Cilindro Apertura Cestello	
3	Valvola di Blocco	
2	Strozzatore Unidirezionale	
1	Innesti Rapidi	
<b>dipeco</b> <small>macchine edili ed agricole</small> <small>Montecchio E (R.E.) ITALY</small> <small>tel. (0039) 0522 / 869611</small> <small>Fax (0039) 0522 / 869792</small> <small>E-mail: mailbox@dipeco.com</small> <small>s.r.l.</small>		
<b>Schema idraulico cestello estensibile</b> <small>COMPLESSIVO GRUPPO</small>		
<small>NUMERO DISEGNO</small> <small>CODICE</small> <small>DISEGNATO</small> <small>CONTROLLATO</small> <small>DATA</small> <small>SCALA</small> <small>LAVORAZIONE</small>		
<small>PARTICOLARE</small> <small>MATERIALE</small> <small>TRATTAMENTO</small> <small>PESO</small> <small>VERNICIATURA</small>		

## 20.2 Hydraulic diagrams of three-sided baskets

Hydraulic diagrams of three-sided baskets:

1	Quick couplings
2	Unidirectional choker
3	Shut-off valve
4	Basket rotation cylinder



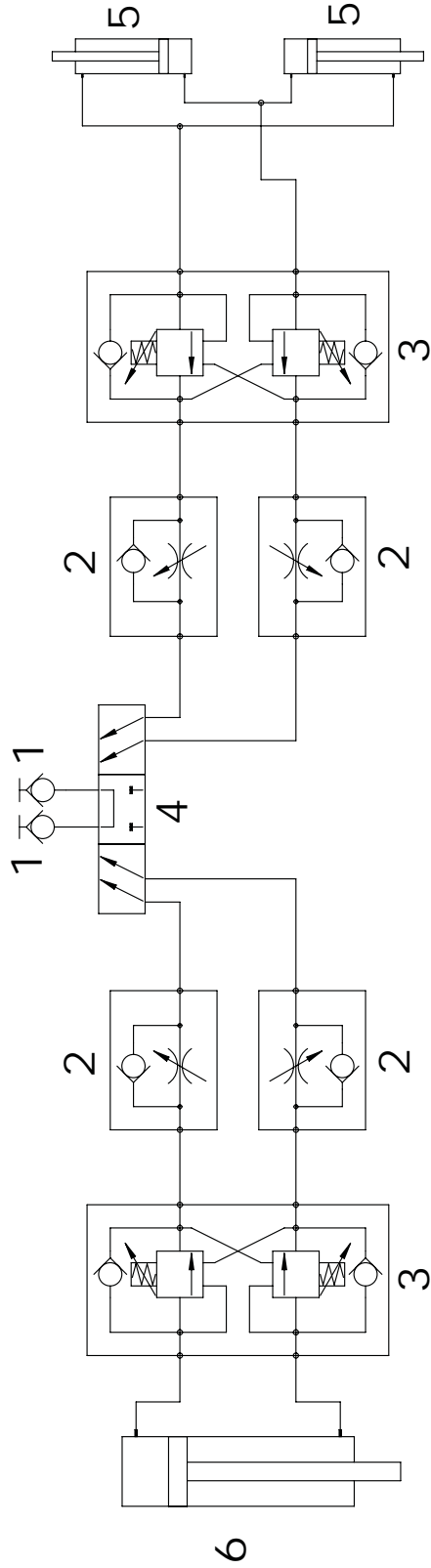
4	Cilindro rotazione cestello	
3	Valvola di Blocco	
2	Strozzatore Unidirezionale	
1	Innesti Rapidi	
<b>doieco</b> <small>macchine edili ed agricole</small> <small>Montecchio E. (R.E.) ITALY</small> <small>tel. (0039) 0522 / 869611</small> <small>Fax (0039) 0522 / 869792</small> <small>s.r.l. E-mail: mailbox@doieco.com</small>		NUMERO DISEGNO
COMPLESSIVO		DISEGNATO
GRUPPO		CONTROLLATO
Schema idraulico cestello trilaterale		DATA
PARTICOLARE		SCALA
MATERIALE		PESO
TRATTAMENTO		VERNICIATURA
		LAVORAZIONE

## 20.3 Hydraulic diagrams of three-sided baskets

### Hydraulic diagrams of three-sided baskets:

1	Quick couplings
2	Unidirectional choker
3	Shut-off valve
4	Selection valve
5	Basket extension cylinder
6	Basket rotation cylinder

## Rotazione Cestello



## Apertura Cestello

6	Cilindro rotazione cestello	
5	Cilindro estensione cestello	
4	Valvola di selezione	
3	Valvola di Blocco	
2	Strozzatore Unidirezionale	
1	Innesti Rapidi	
COMPLESSIVO		NUMERO DISEGNO
Sc. id. cestello trilaterale ed esten.		
GRUPPO		
PARTICOLARE		
MATERIALE		
TRATTAMENTO		
PESO		
VERNICIATURA		
LAVORAZIONE		





## 21 LIST OF CAPACITY DIAGRAMS

Hereunder are the various capacity diagrams with reference to the machines or equipment in this manual.

The capacity diagrams vary according to the equipment and the machine on which it is installed.



Refer to the “Capacity diagrams” Chapter for further information on how to read the data they contain.



### - ATTENTION

The diagrams of the machine and equipment being used must always be present in the Diagram notebook found in the cab, used by the operator.



Replace the capacity diagrams if they deteriorate, are damaged or lost.



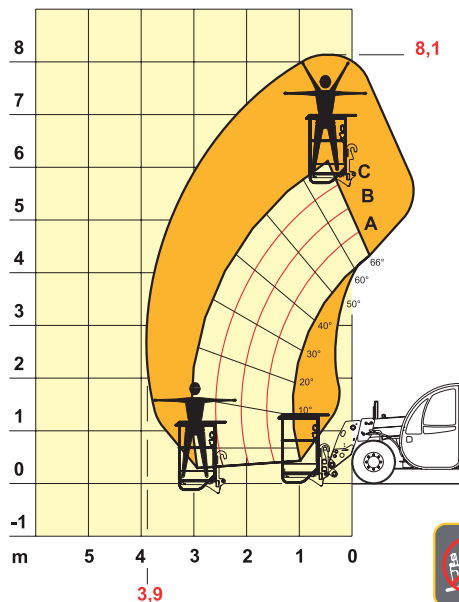
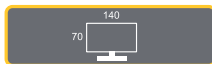
### - WARNING

The capacity diagrams are ordered just like spare parts (make sure you provide the relative identification code when placing the order).

## 21.1 Apollo

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on wheels
APOLLO 25.6	190	BUD6341	BUD6340/1	Front basket for base distributor	AXB1377/39

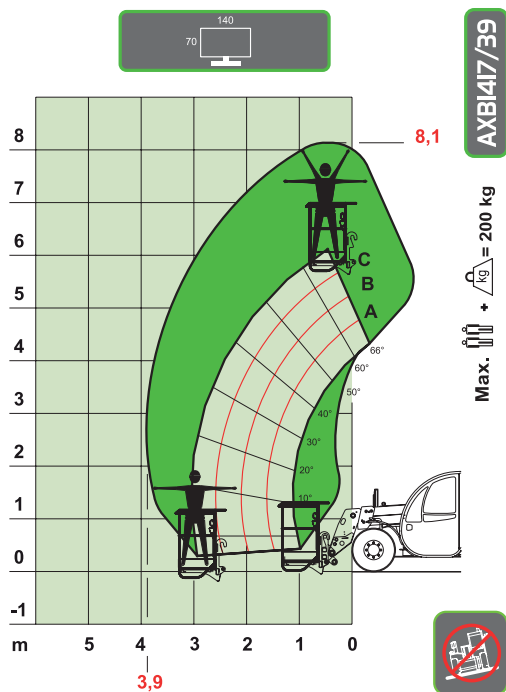
# **APOLLO 25.6**



## 21.2 Mini Agri

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on wheels
MINI AGRI 25.6	190	BUD6341	BUD6340/1	Front basket for base distributor	AXB1417/39

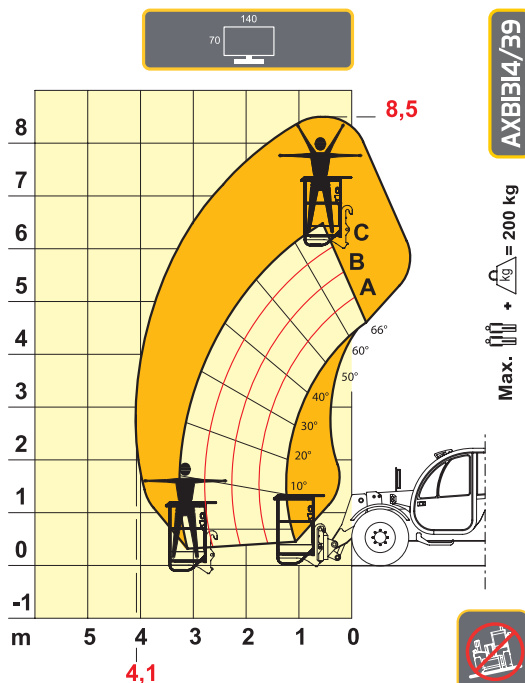
# MINI AGRI 25.6



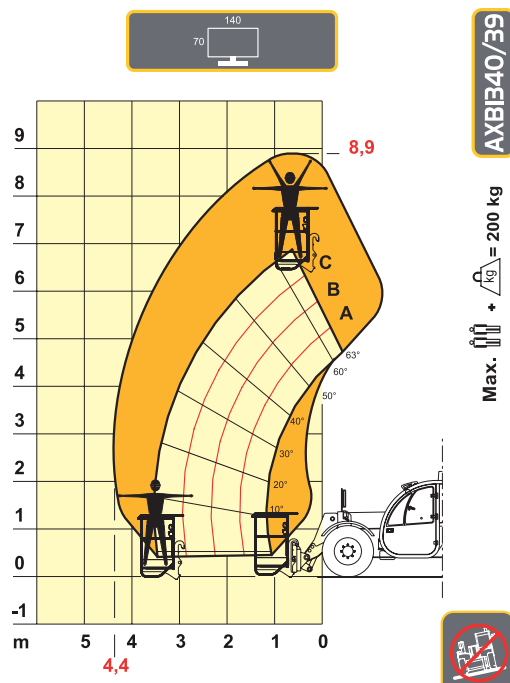
## 21.3 Dedalus

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on wheels
Dedalus 26.6	182	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1314/39
Dedalus 28.7	187-7	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1340/39
Dedalus 28.9	187-9	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1399/39
Dedalus 30.7	187-7	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1341/39
Dedalus 30.9	187-9	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1400/39

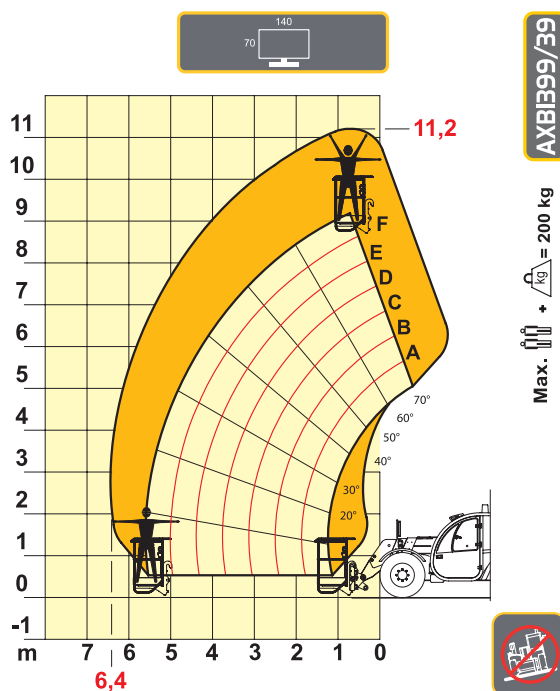
## DEDALUS 26.6



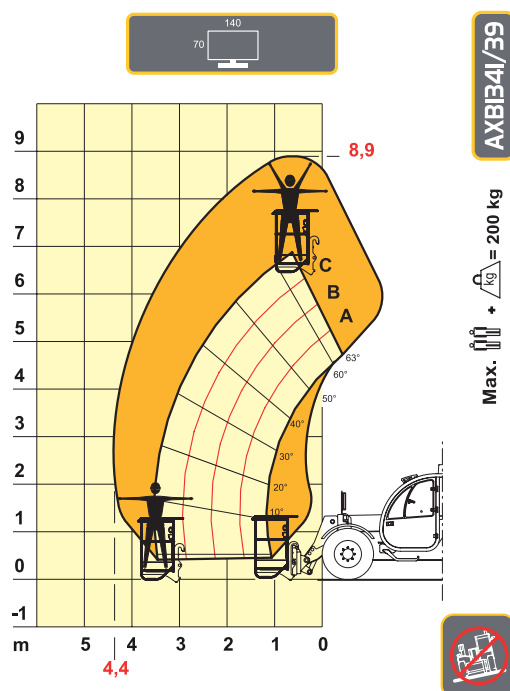
## DEDALUS 28.7



## DEDALUS 28.9

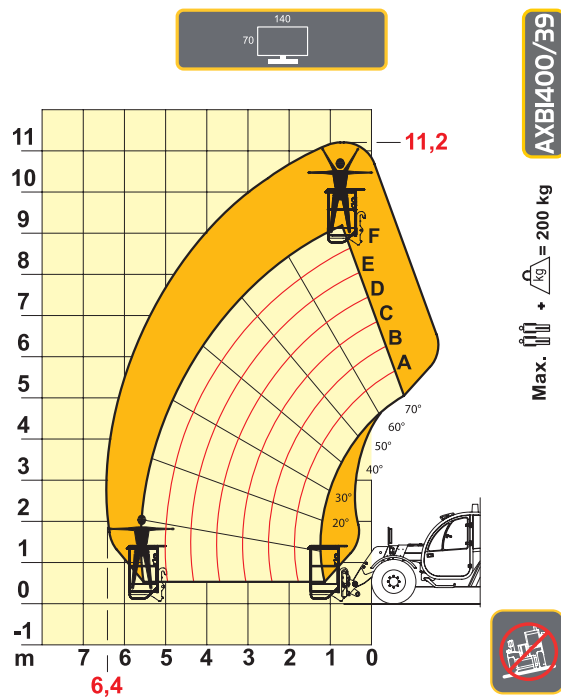


## DEDALUS 30.7





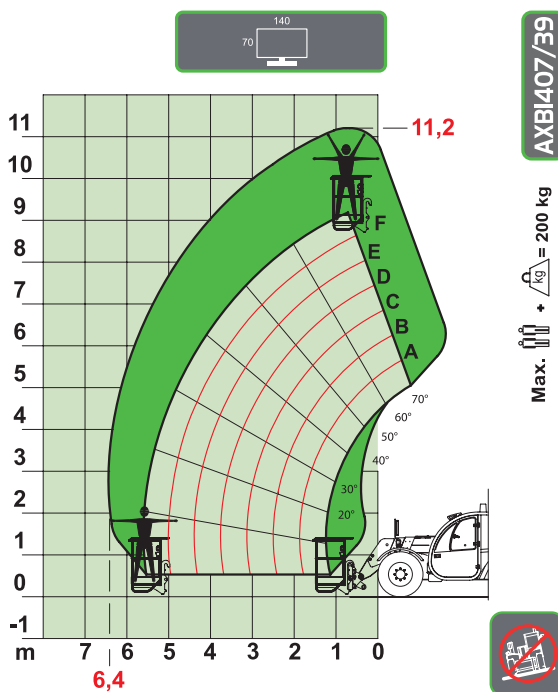
# DEDALUS 30.9



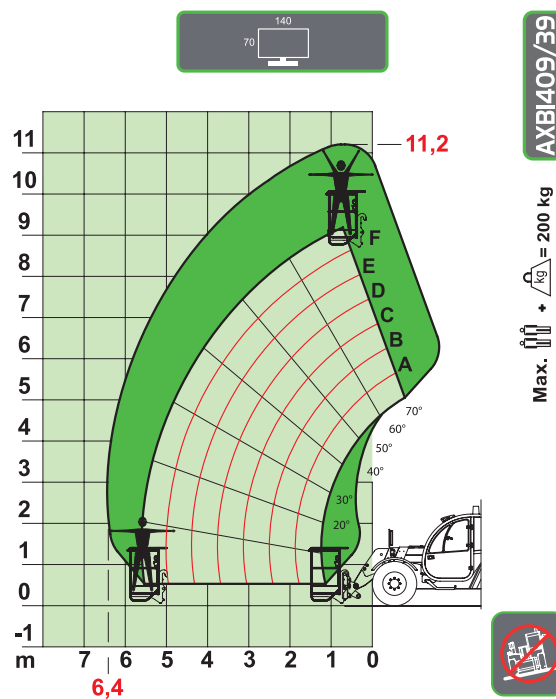
## 21.4 Agri Farmer

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on wheels
Agri Farmer 26.6	182	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1405/39
Agri Farmer 28.7	187-7	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1406/39
Agri Farmer 28.9	187-9	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1407/39
Agri Farmer 30.7	187-7	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1408/39
Agri Farmer 30.9	187-9	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1409/39

## AGRI FARMER 28.9



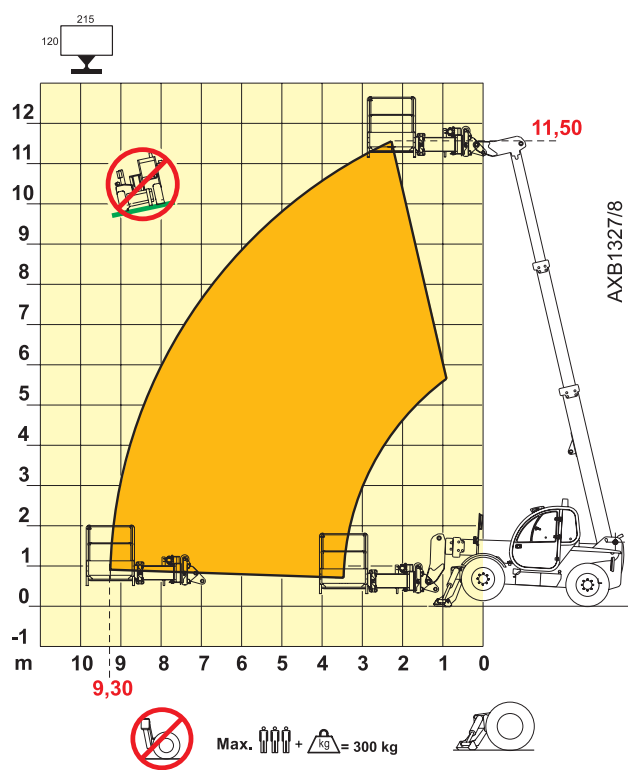
## AGRI FARMER 30.9



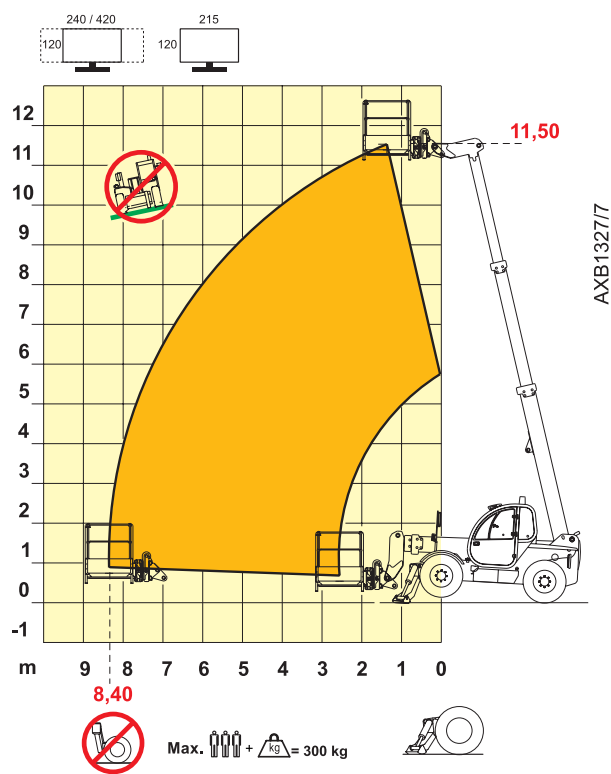
## 21.5 Samson

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
Samson 40.11	175-11	BUD6221	BUD6220/1	Front basket for base distributor	AXB1327/7
Samson 40.11	175-11	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1327/7
Samson 40.11	175-11	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1327/7
Samson 40.11	175-11	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1327/7
Samson 40.11	175-11	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1327/7
Samson 40.11	175-11	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1327/7
Samson 40.11	175-11	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1327/8
Samson 40.11	175-11	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1327/8
Samson 40.11	175-11	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1327/8
Samson 70.10 - with outriggers	179-10	BUD6223	BUD6223/1	Front basket for base distributor	AXB1325/7
Samson 70.10 - with outriggers	179-10	BUD6228	BUD6228/1	Extendible front basket for base distributor	AXB1325/7
Samson 70.10 - with outriggers	179-10	BUD6233	BUD6233/1	Three-sided basket for base distributor	AXB1325/8
Samson 70.10 - with outriggers	179-10	BUD6276	BUD6291/1	Extendible three-sided basket for base distributor	AXB1325/8
Samson 70.10 - with outriggers	179-10	BUD6278	BUD6278/1	Extendible three-sided basket for proportional distributor	AXB1325/14

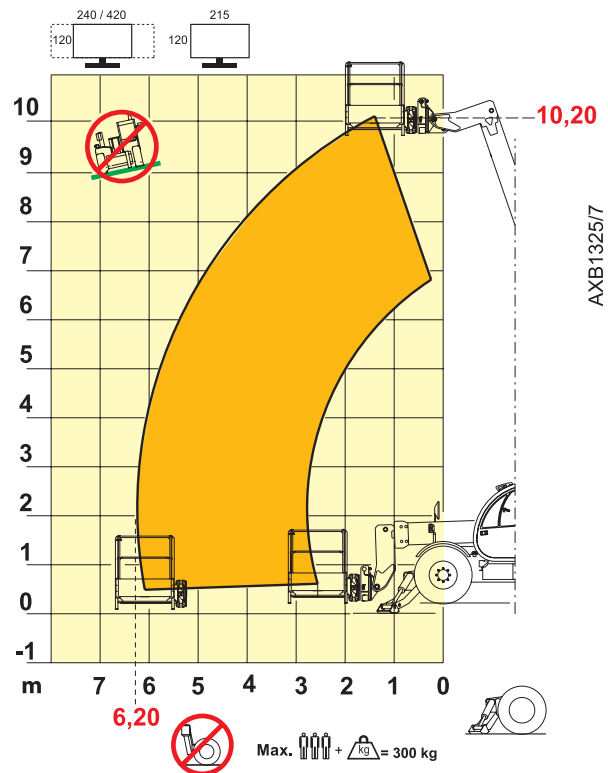
○ **SAMSON 40.11** ○



○ **SAMSON 40.11** ○



○ **SAMSON 70.10** ○



## 21.6 Icarus

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Icarus 30.16	177-16	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1337/7	
Icarus 30.16	177-16	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1337/7	
Icarus 30.16	177-16	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1337/7	
Icarus 30.16	177-16	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1337/7	
Icarus 30.16	177-16	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1337/8	AXB1337/10
Icarus 30.16	177-16	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1337/8	AXB1337/10
Icarus 30.16	177-16	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1337/8	
Icarus 30.16	177-16	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1337/8	
Icarus 35.13	177-13	BUD6221	BUD6220/1	Front basket for base distributor	AXB1335/7	
Icarus 35.13	177-13	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1335/7	
Icarus 35.13	177-13	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1335/7	
Icarus 35.13	177-13	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1335/7	
Icarus 35.13	177-13	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1335/7	
Icarus 35.13	177-13	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1335/7	
Icarus 35.13	177-13	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1335/8	AXB1335/10
Icarus 35.13	177-13	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1335/8	AXB1335/10
Icarus 35.13	177-13	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1335/8	AXB1335/10
Icarus 35.13	177-13	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1335/8	



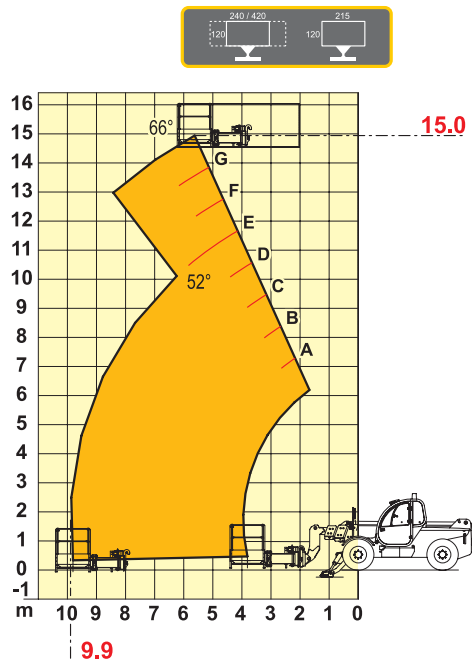
Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Icarus 35.13	177-13	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1335/8	
Icarus 35.13	177-13	BUD6238	BUD6235/1	Extendible three-sided basket for base distributor	AXB1335/8	
Icarus 38.14	177-14	BUD6221	BUD6220/1	Front basket for base distributor	AXB1336/7	
Icarus 38.14	177-14	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1336/7	
Icarus 38.14	177-14	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1336/7	
Icarus 38.14	177-14	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1336/7	
Icarus 38.14	177-14	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1336/7	
Icarus 38.14	177-14	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1336/7	
Icarus 38.14	177-14	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1336/8	AXB1336/10
Icarus 38.14	177-14	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1336/8	AXB1336/10
Icarus 38.14	177-14	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1336/8	AXB1336/10
Icarus 38.14	177-14	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1336/8	
Icarus 38.14	177-14	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1336/8	
Icarus 38.14	177-14	BUD6238	BUD6235/1	Extendible three-sided basket for base distributor	AXB1336/8	
Icarus 40.14	177-14	BUD6221	BUD6220/1	Front basket for base distributor	AXB1357/7	
Icarus 40.14	177-14	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1357/7	
Icarus 40.14	177-14	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1357/7	
Icarus 40.14	177-14	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1357/7	
Icarus 40.14	177-14	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1357/7	
Icarus 40.14	177-14	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1357/7	



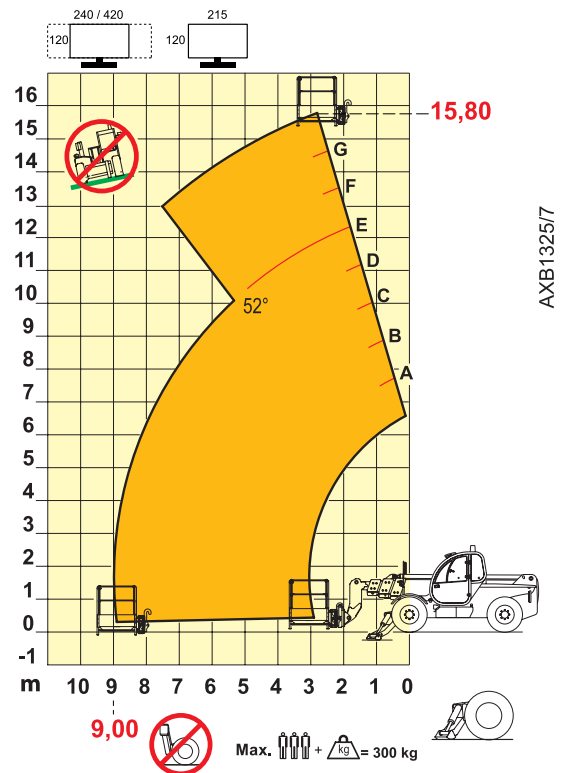
Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Icarus 40.14	177-14	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1357/8	AXB1357/10
Icarus 40.14	177-14	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1357/8	AXB1357/10
Icarus 40.14	177-14	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1357/8	AXB1357/10
Icarus 40.14	177-14	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1357/8	
Icarus 40.14	177-14	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1357/8	
Icarus 40.14	177-14	BUD6238	BUD6235/1	Extendible three-sided basket for base distributor	AXB1357/8	
Icarus 40.16	179-16	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1338/7	
Icarus 40.16	179-16	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1338/7	
Icarus 40.16	179-16	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1338/7	
Icarus 40.16	179-16	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1338/7	
Icarus 40.16	179-16	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1338/8	AXB1338/10
Icarus 40.16	179-16	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1338/8	AXB1338/10
Icarus 40.16	179-16	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1338/8	
Icarus 40.16	179-16	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1338/8	
Icarus 40.16	179-16	BUD6384	BUD6248/1	Extendible three-sided basket for proportional distributor Mod. Danese	AXB1338/17	AXB1338/17VMC
Icarus 40.16	179-16	BUD6248	BUD6248/1	Extendible three-sided basket for proportional distributor with radio control Mod. Danese	AXB1338/17	AXB1338/17VMC
Icarus 40.17	179-17	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1339/7	
Icarus 40.17	179-17	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1339/7	

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Icarus 40.17	179-17	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1339/7	
Icarus 40.17	179-17	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1339/7	
Icarus 40.17	179-17	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1339/8	AXB1339/10
Icarus 40.17	179-17	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1339/8	AXB1339/10
Icarus 40.17	179-17	BUD6239	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1339/8	
Icarus 40.17	179-17	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1339/8	
Icarus 40.17	179-17	BUD6243	BUD6237/1	Extendible three-sided basket for proportional distributor	AXB1339/14	
Icarus 40.17	179-17	BUD6254	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1339/14	
Icarus 40.17	179-17	BUD6384	BUD6248/1	Extendible three-sided basket for proportional distributor Mod. Danese	AXB1339/17	AXB1339/17VMC
Icarus 40.17	179-17	BUD6248	BUD6248/1	Extendible three-sided basket for proportional distributor with radio control Mod. Danese	AXB1339/17	AXB1339/17VMC

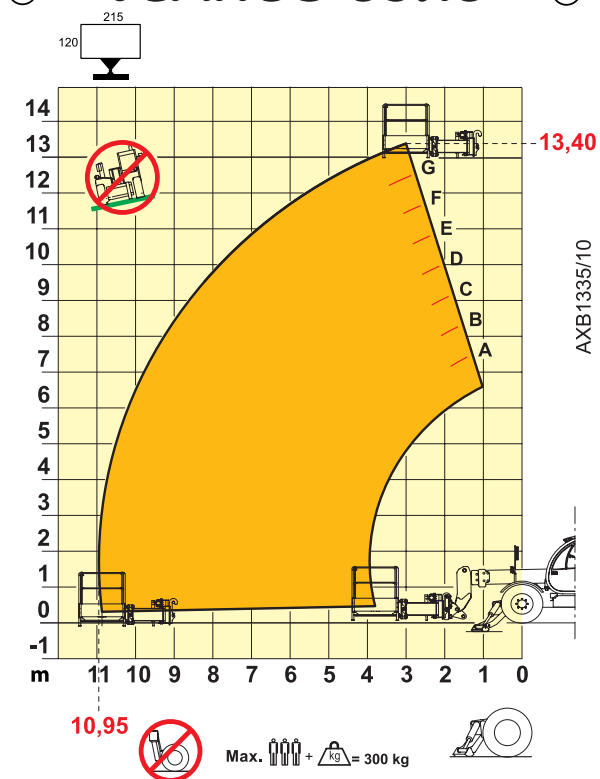
## ICARUS 30.16



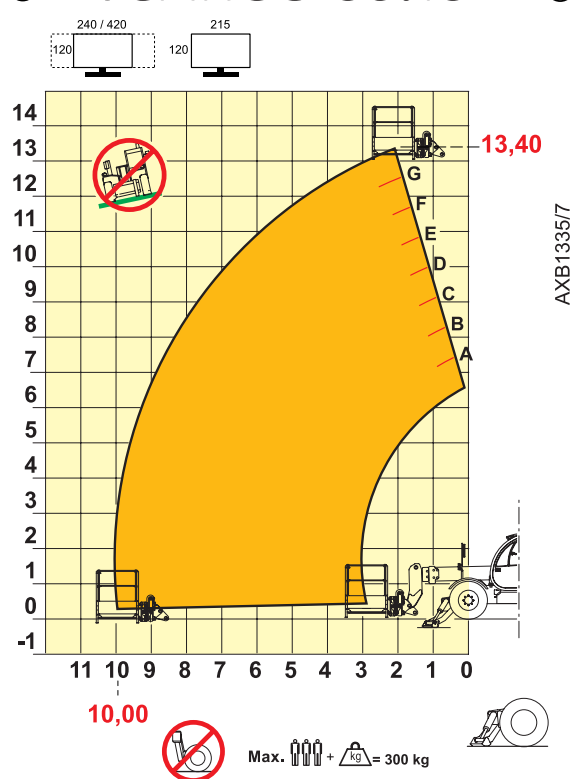
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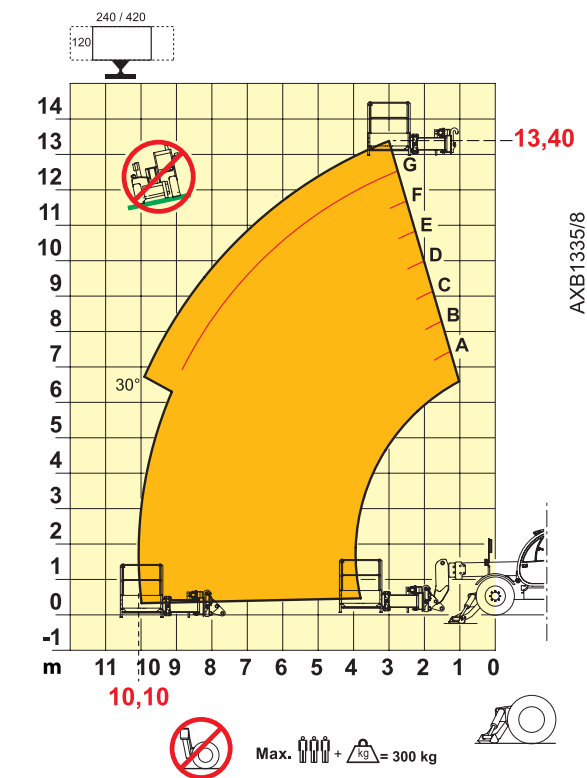
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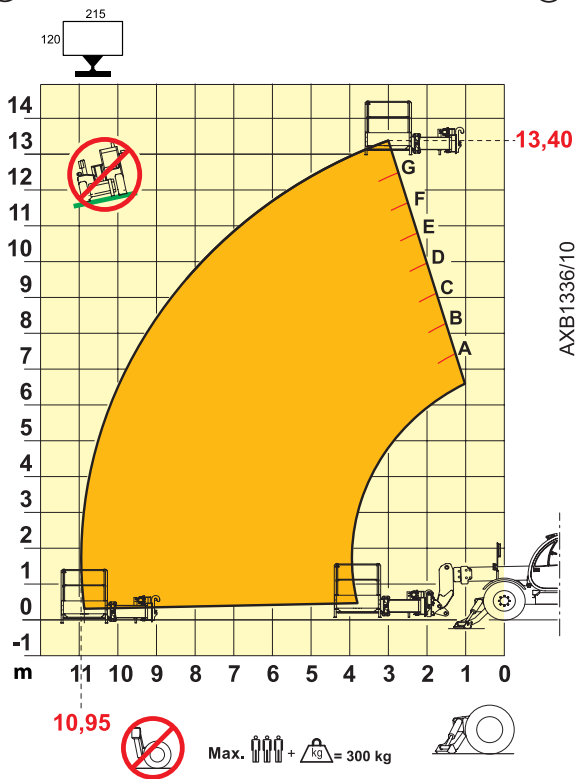


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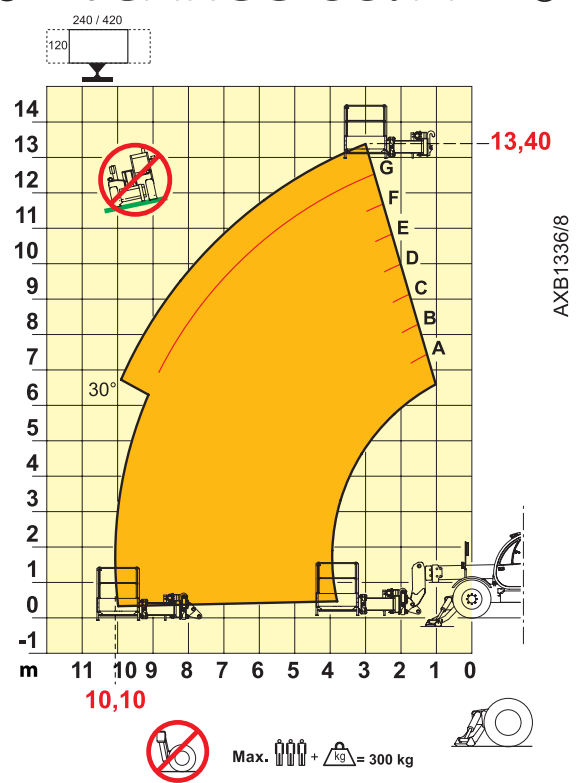
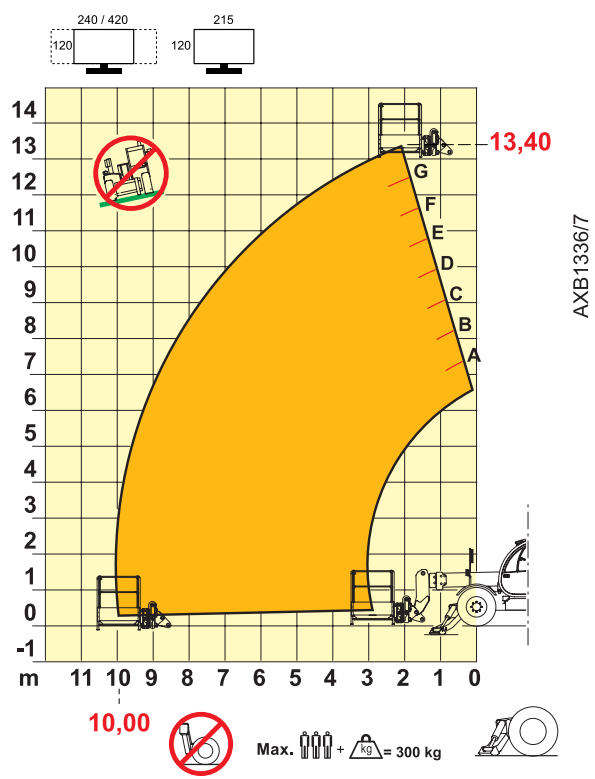


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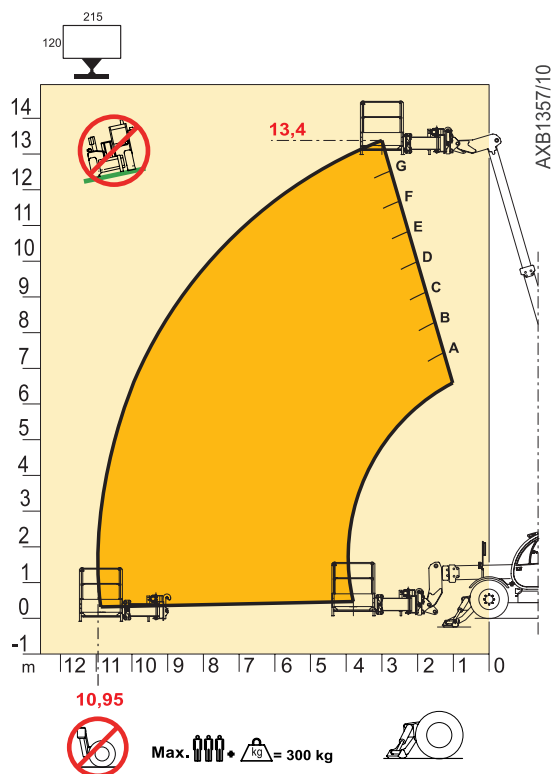




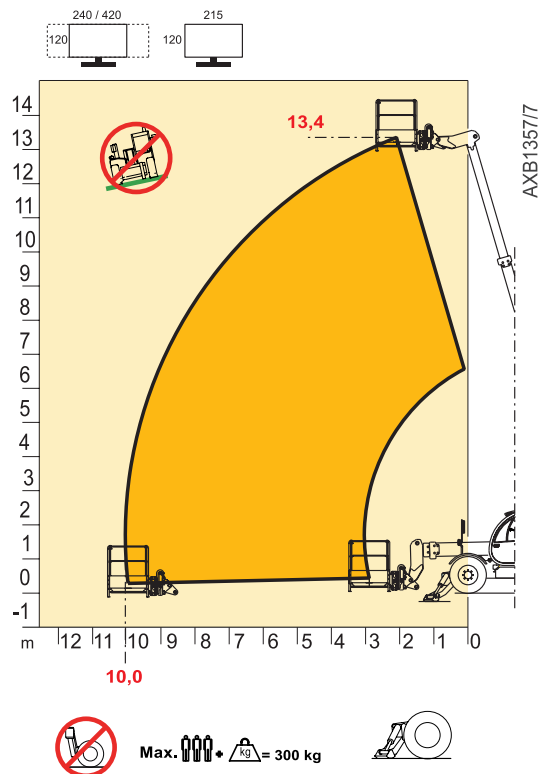
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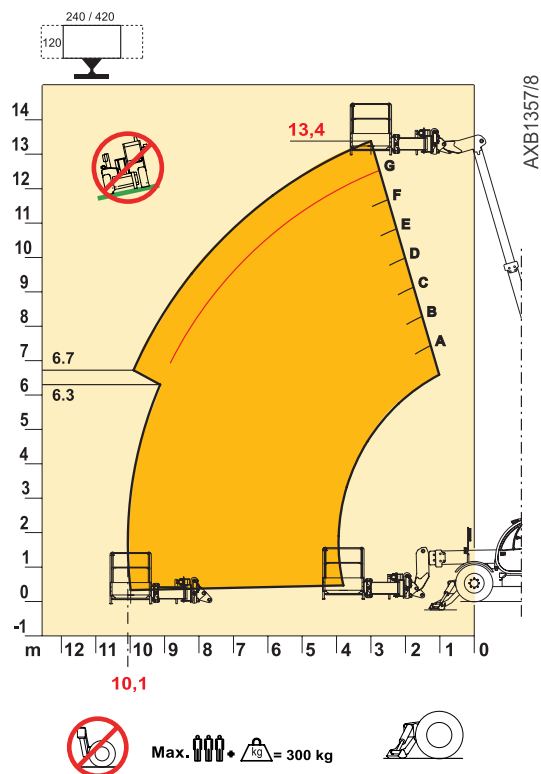
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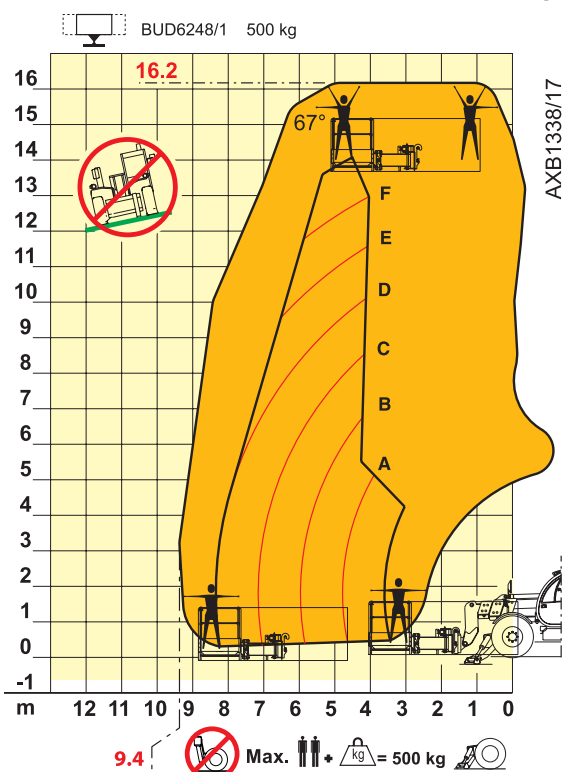
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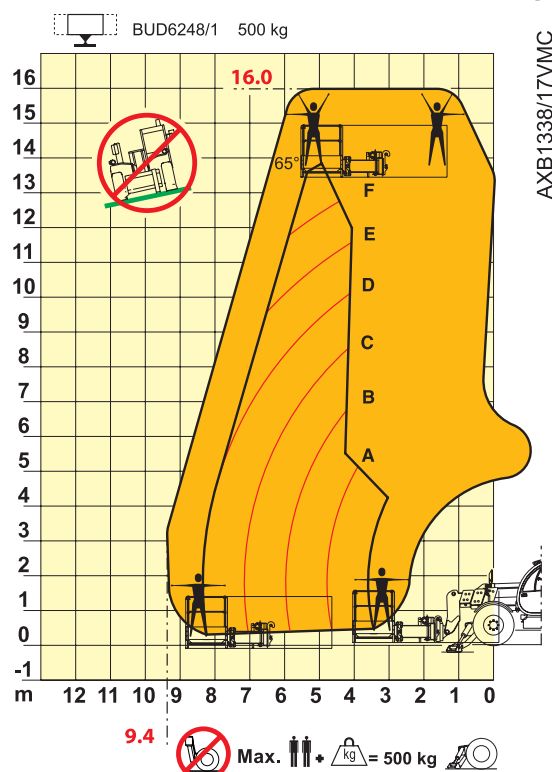
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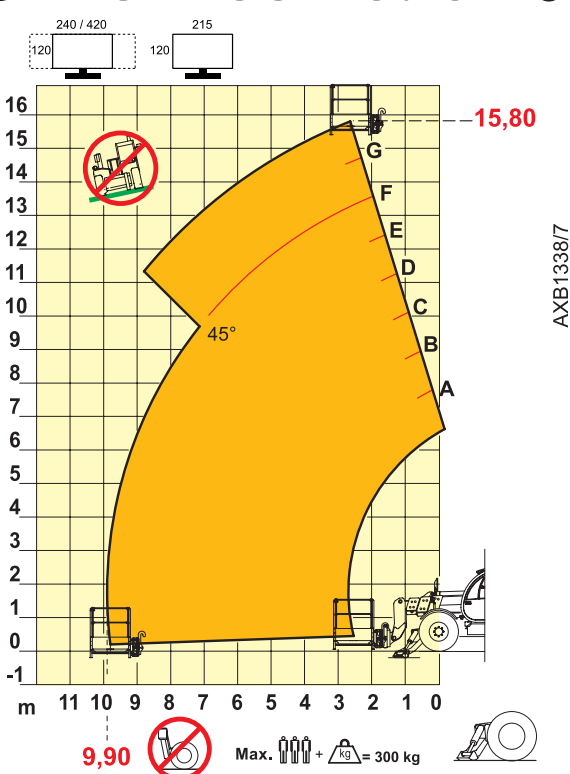
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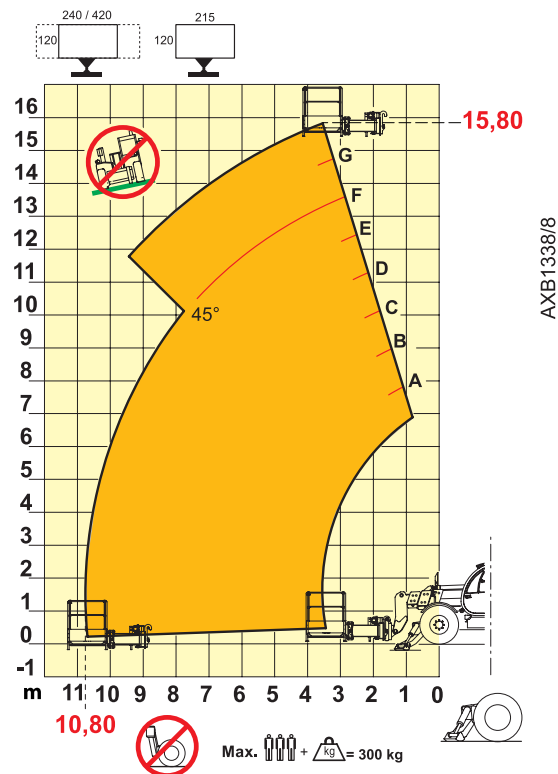
## ICARUS 40.16



## ICARUS 40.16

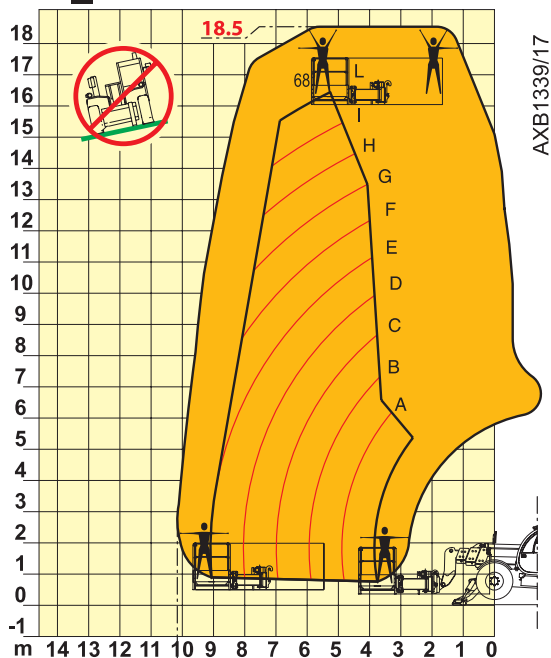


## ICARUS 40.16



# ICARUS 40.17

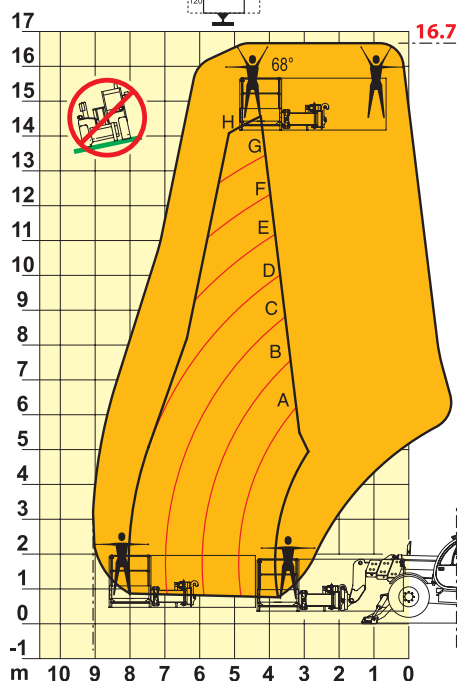
BUD6248/1 500 kg



10.2 Max. + = 500 kg

# ICARUS 40.17

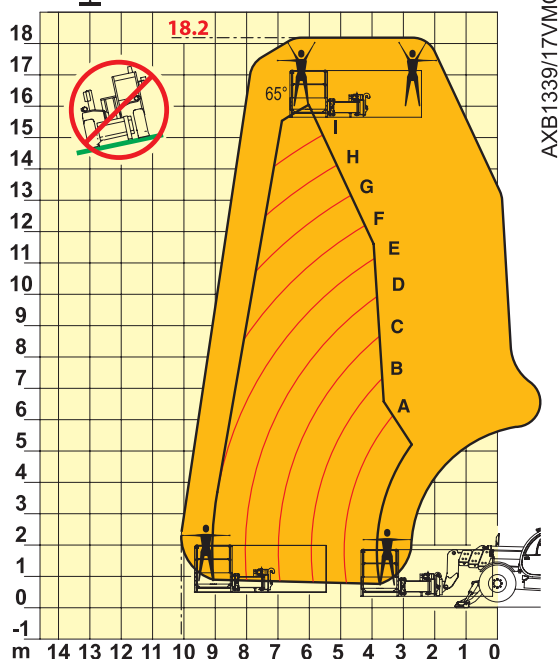
240 / 420  
120



9.1 Max. + = 800 kg

# ICARUS 40.17

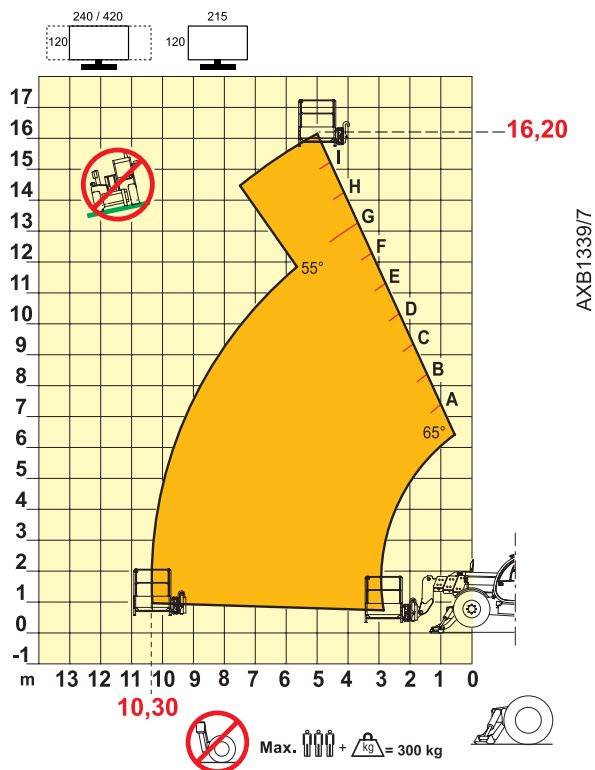
BUD6248/1 500 kg



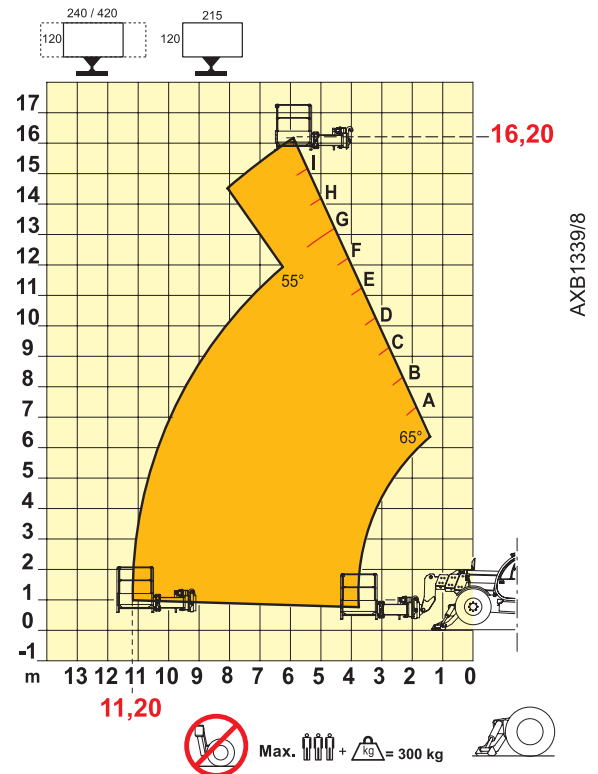
10.1 Max. + = 500 kg



## ICARUS 40.17



## ICARUS 40.17



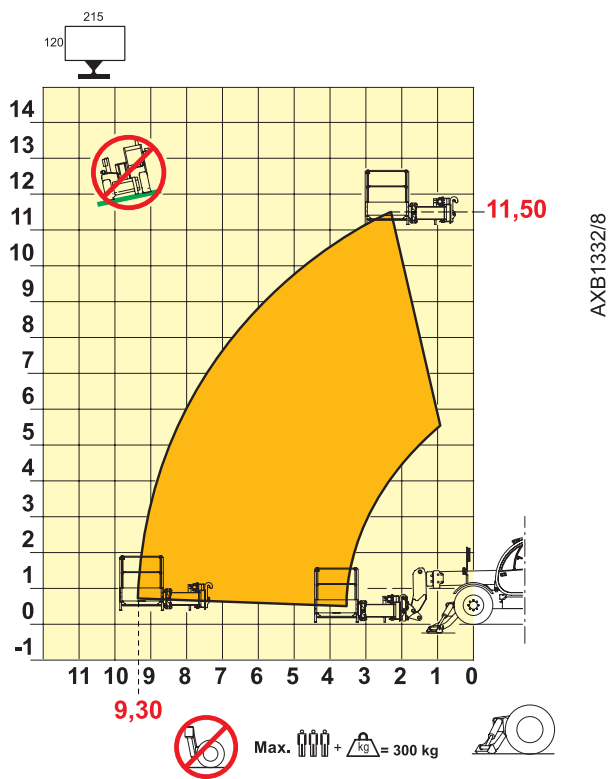
## 21.7 Runner

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Runner 30.11	175-11	BUD6221	BUD6220/1	Front basket for base distributor	AXB1332/7	
Runner 30.11	175-11	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1332/7	
Runner 30.11	175-11	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1332/7	
Runner 30.11	175-11	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1332/7	
Runner 30.11	175-11	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1332/7	
Runner 30.11	175-11	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1332/7	
Runner 30.11	175-11	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1332/8	
Runner 30.11	175-11	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1332/8	
Runner 30.11	175-11	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1332/8	
Runner 35.12	175-12	BUD6221	BUD6220/1	Front basket for base distributor	AXB1333/7	
Runner 35.12	175-12	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1333/7	
Runner 35.12	175-12	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1333/7	
Runner 35.12	175-12	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1333/7	
Runner 35.12	175-12	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1333/7	
Runner 35.12	175-12	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1333/7	
Runner 35.12	175-12	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1333/8	AXB1333/10
Runner 35.12	175-12	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1333/8	AXB1333/10
Runner 35.12	175-12	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1333/8	AXB1333/10
Runner 37.13	175-13	BUD6221	BUD6220/1	Front basket for base distributor	AXB1334/7	

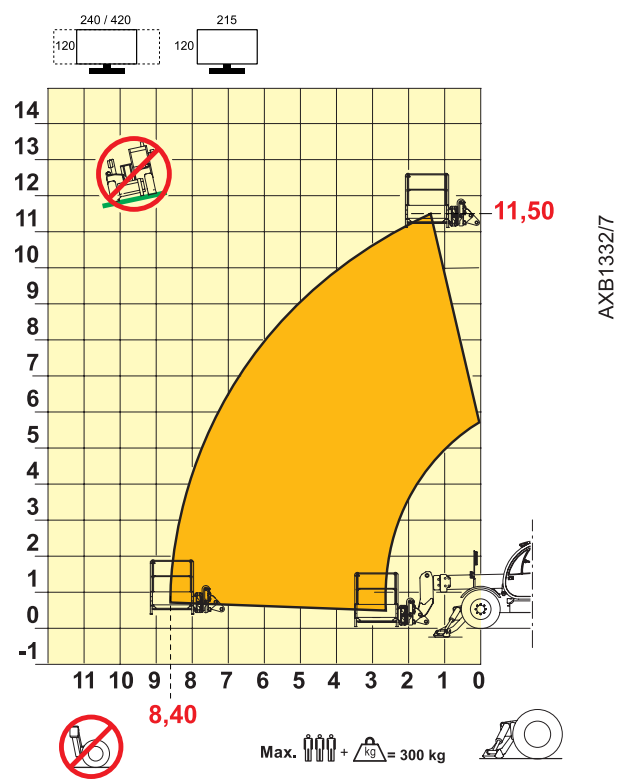


Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers	Diagram on wide outriggers
Runner 37.13	175-13	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1334/7	
Runner 37.13	175-13	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1334/7	
Runner 37.13	175-13	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1334/7	
Runner 37.13	175-13	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1334/7	
Runner 37.13	175-13	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1334/7	
Runner 37.13	175-13	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1334/8	AXB1334/10
Runner 37.13	175-13	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1334/8	AXB1334/10
Runner 37.13	175-13	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1334/8	AXB1334/10
Runner 40.13	175-13	BUD6221	BUD6220/1	Front basket for base distributor	AXB1356/7	
Runner 40.13	175-13	BUD6222	BUD6220/1	Front basket for proportional distributor	AXB1356/7	
Runner 40.13	175-13	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1356/7	
Runner 40.13	175-13	BUD6226	BUD6225/1	Extendible front basket for base distributor	AXB1356/7	
Runner 40.13	175-13	BUD6227	BUD6225/1	Extendible basket for proportional distributor	AXB1356/7	
Runner 40.13	175-13	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1356/7	
Runner 40.13	175-13	BUD6231	BUD6230/1	Three-sided basket for base distributor	AXB1356/8	
Runner 40.13	175-13	BUD6232	BUD6230/1	Three-sided basket for proportional distributor	AXB1356/8	
Runner 40.13	175-13	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1356/8	

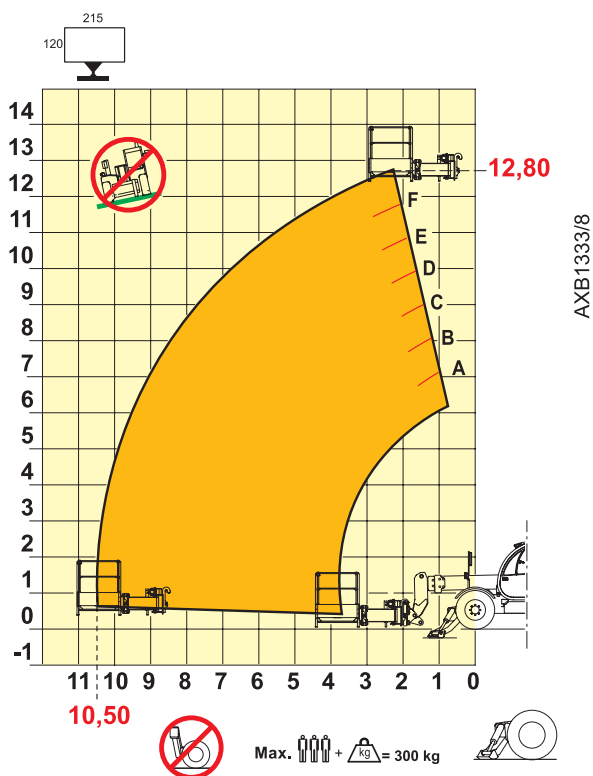
## ○ **RUNNER 30.11** ○



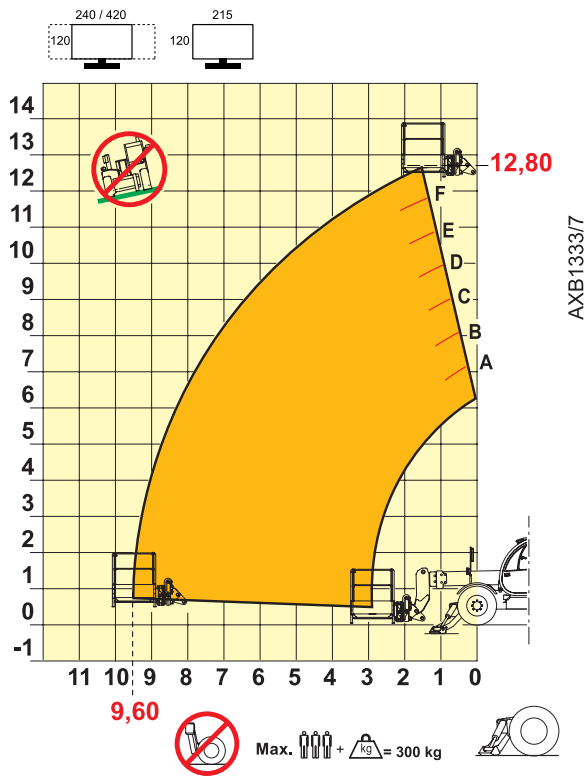
## ○ **RUNNER 30.11** ○



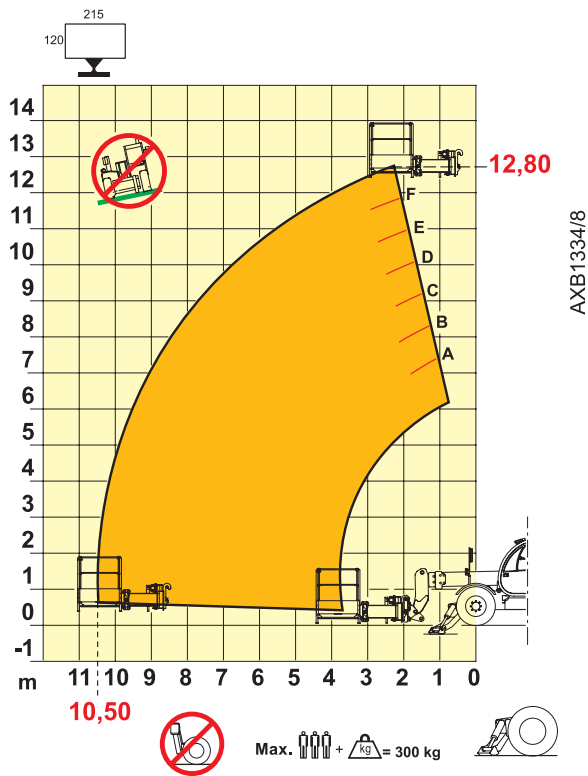
# ○ **RUNNER 35.12** ○



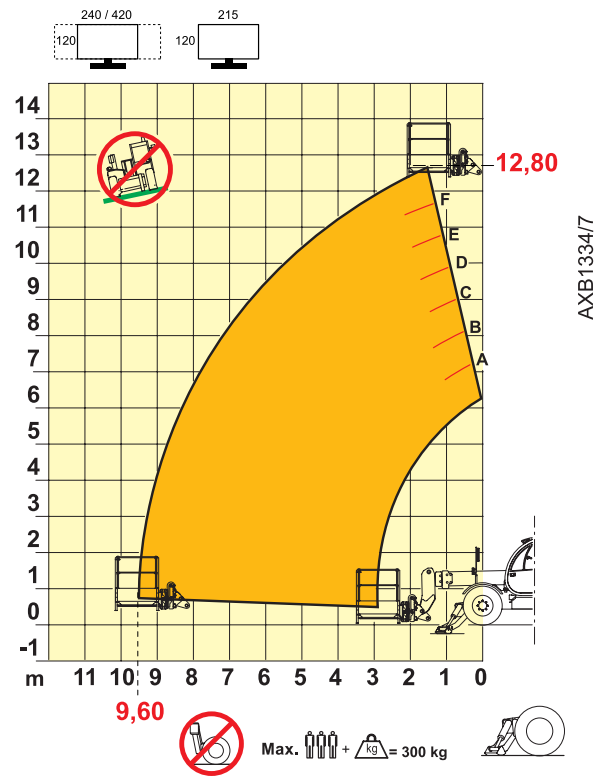
# ○ **RUNNER 35.12** ○



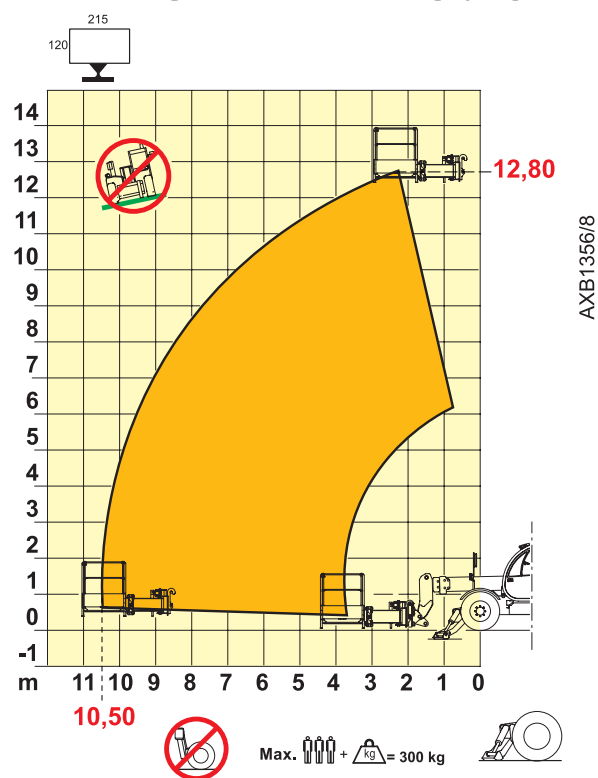
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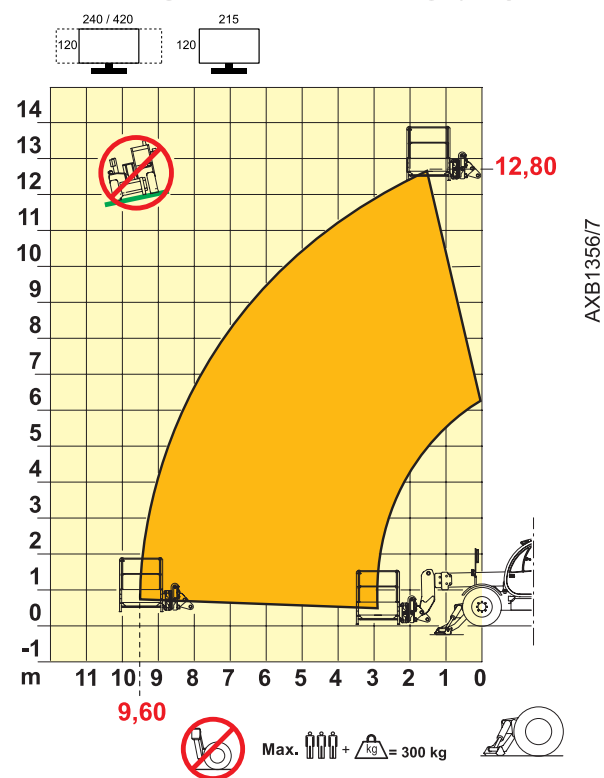
## ○ **RUNNER 37.13** ○



# ○ RUNNER 40.13 ○



○ **RUNNER 40.13** ○

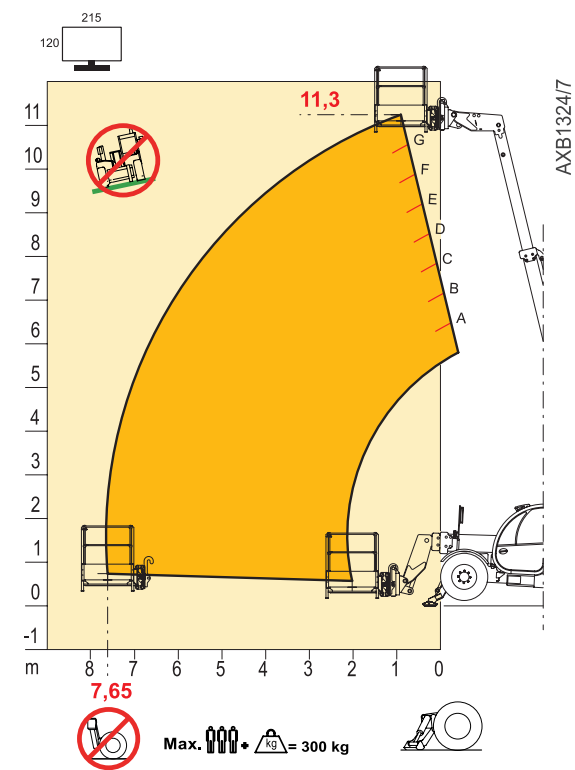


## 21.8 Zeus

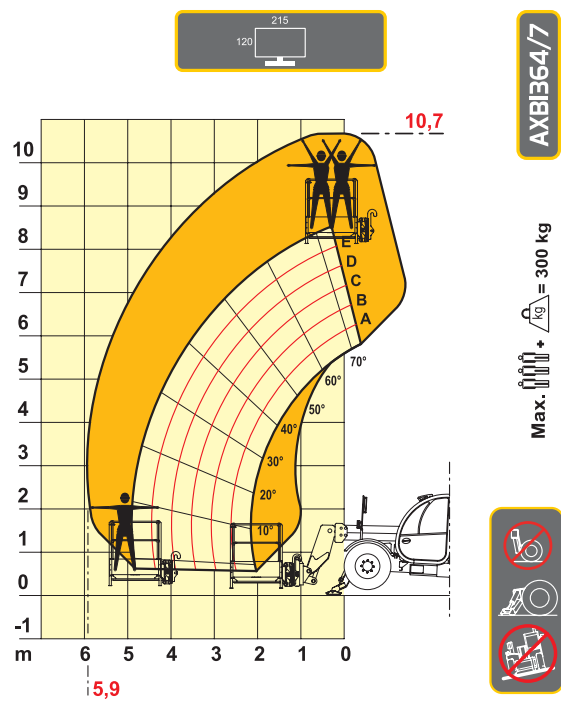
Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
Zeus 33.11	185-11	BUD6245	BUD6245/1	Front basket	AXB1324/7
Zeus 35.10	185-10	BUD6245	BUD6245/1	Front basket	AXB1322/7
Zeus 37.8 - with outriggers	185-8	BUD6245	BUD6245/1	Front basket	AXB1364/7
Zeus 38.10	185-10	BUD6245	BUD6245/1	Front basket	AXB1381/7



# ZEUS 33.11



# ZEUS 37.8



## 21.9 Pegasus

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 38.16 - 400°	159-16	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1487/7
PEGASUS 38.16 - 400°	159-16	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1487/7
PEGASUS 38.16 - 400°	159-16	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1487/8
PEGASUS 38.16 - 400°	159-16	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1487/8
PEGASUS 38.16 - 400°	159-16	BUD6250	BUD6220/1	Front basket for the base distributor with radio control	AXB1487/7
PEGASUS 38.16 - 400°	159-16	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1487/8
PEGASUS 38.16 - 400°	159-16	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1487/7
PEGASUS 38.16 - 400°	159-16	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1487/8
PEGASUS 38.16 - 400°	159-16	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1487/114
PEGASUS 38.16 - 400°	159-16	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1487/114
PEGASUS 38.16 - 400°	159-16	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1487/115
PEGASUS 38.16 - 400°	159-16	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1487/115
PEGASUS 38.16 - 400°	159-16	BUD6390	BUD6390/1	Extendible three-sided basket for a tunnel	AXB1487/120
PEGASUS 38.16 - 400°	159-16	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1487/14
PEGASUS 38.16 - 400°	159-16	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1487/14
PEGASUS 40.17	153-17	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1393/7
PEGASUS 40.17	153-17	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1393/7
PEGASUS 40.17	153-17	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1393/8
PEGASUS 40.17	153-17	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1393/8
PEGASUS 40.17	153-17	BUD6250	BUD6220/1	Front basket for the base distributor with radio control	AXB1393/7



Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 40.17	153-17	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1393/8
PEGASUS 40.17	153-17	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1393/7
PEGASUS 40.17	153-17	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1393/8
PEGASUS 40.17	153-17	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1393/114
PEGASUS 40.17	153-17	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1393/114
PEGASUS 40.17	153-17	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1393/115
PEGASUS 40.17	153-17	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1393/115
PEGASUS 40.17	153-17	BUD6395	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1393/36
PEGASUS 40.17	153-17	BUD6396	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1393/36
PEGASUS 40.17	153-17	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1393/14
PEGASUS 40.17	153-17	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1393/14
PEGASUS 40.18 - 400°	159-18	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1508/7
PEGASUS 40.18 - 400°	159-18	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1508/7
PEGASUS 40.18 - 400°	159-18	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1508/8
PEGASUS 40.18 - 400°	159-18	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1508/8
PEGASUS 40.18 - 400°	159-18	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1508/7
PEGASUS 40.18 - 400°	159-18	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1508/8
PEGASUS 40.18 - 400°	159-18	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1508/7
PEGASUS 40.18 - 400°	159-18	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1508/8
PEGASUS 40.18 - 400°	159-18	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1508/14

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 40.18 - 400°	159-18	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1508/14
PEGASUS 40.25	156-25	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1397/7
PEGASUS 40.25	156-25	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1397/7
PEGASUS 40.25	156-25	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1397/8
PEGASUS 40.25	156-25	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1397/8
PEGASUS 40.25	156-25	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1397/7
PEGASUS 40.25	156-25	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1397/8
PEGASUS 40.25	156-25	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1397/7
PEGASUS 40.25	156-25	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1397/8
PEGASUS 40.25	156-25	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1397/114
PEGASUS 40.25	156-25	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1397/114
PEGASUS 40.25	156-25	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1397/115
PEGASUS 40.25	156-25	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1397/115
PEGASUS 40.25	156-25	BUD6395	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1397/36
PEGASUS 40.25	156-25	BUD6396	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1397/36
PEGASUS 40.25	156-25	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1397/14
PEGASUS 40.25	156-25	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1397/14
PEGASUS 40.25	156-25	BUD6399	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1397/19
PEGASUS 40.25	156-25	BUD6400	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1397/19
PEGASUS 45.19	154-19	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1394/7
PEGASUS 45.19	154-19	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1394/7
PEGASUS 45.19	154-19	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1394/8



Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 45.19	154-19	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1394/8
PEGASUS 45.19	154-19	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1394/7
PEGASUS 45.19	154-19	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1394/8
PEGASUS 45.19	154-19	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1394/7
PEGASUS 45.19	154-19	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1394/8
PEGASUS 45.19	154-19	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1394/114
PEGASUS 45.19	154-19	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1394/114
PEGASUS 45.19	154-19	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1394/115
PEGASUS 45.19	154-19	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1394/115
PEGASUS 45.19	154-19	BUD6395	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1394/36
PEGASUS 45.19	154-19	BUD6396	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1394/36
PEGASUS 45.19	154-19	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1394/14
PEGASUS 45.19	154-19	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1394/14
PEGASUS 45.19	154-19	BUD6399	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1394/19
PEGASUS 45.19	154-19	BUD6400	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1394/19
PEGASUS 45.21	155-21	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1395/7
PEGASUS 45.21	155-21	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1395/7
PEGASUS 45.21	155-21	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1395/8
PEGASUS 45.21	155-21	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1395/8
PEGASUS 45.21	155-21	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1395/7
PEGASUS 45.21	155-21	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1395/8
PEGASUS 45.21	155-21	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1395/7

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 45.21	155-21	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1395/8
PEGASUS 45.21	155-21	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1395/114
PEGASUS 45.21	155-21	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1395/114
PEGASUS 45.21	155-21	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1395/115
PEGASUS 45.21	155-21	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1395/115
PEGASUS 45.21	155-21	BUD6395	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1395/36
PEGASUS 45.21	155-21	BUD6396	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1395/36
PEGASUS 45.21	155-21	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1395/14
PEGASUS 45.21	155-21	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1395/14
PEGASUS 45.21	155-21	BUD6399	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1395/19
PEGASUS 45.21	155-21	BUD6400	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1395/19
PEGASUS 50.21	155-21	BUD6224	BUD6220/1	Front basket for proportional distributor	AXB1396/7
PEGASUS 50.21	155-21	BUD6229	BUD6225/1	Extendible front basket for proportional distributor	AXB1396/7
PEGASUS 50.21	155-21	BUD6234	BUD6230/1	Three-sided basket for proportional distributor	AXB1396/8
PEGASUS 50.21	155-21	BUD6241	BUD6235/1	Extendible three-sided basket for proportional distributor	AXB1396/8
PEGASUS 50.21	155-21	BUD6250	BUD6220/1	Front basket for proportional distributor with radio control	AXB1396/7
PEGASUS 50.21	155-21	BUD6251	BUD6230/1	Three-sided basket for proportional distributor with radio control	AXB1396/8
PEGASUS 50.21	155-21	BUD6252	BUD6225/1	Extendible front basket for proportional distributor with radio control	AXB1396/7
PEGASUS 50.21	155-21	BUD6253	BUD6235/1	Extendible three-sided basket for proportional distributor with radio control	AXB1396/8
PEGASUS 50.21	155-21	BUD6375	BUD6365/1	Three-sided basket for a tunnel	AXB1396/114
PEGASUS 50.21	155-21	BUD6380	BUD6365/1	Three-sided basket for a tunnel for proportional distributor	AXB1396/114
PEGASUS 50.21	155-21	BUD6381	BUD6366/1	Three-sided basket for a tunnel	AXB1396/115



Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on outriggers
PEGASUS 50.21	155-21	BUD6382	BUD6366/1	Three-sided basket for a tunnel for proportional distributor	AXB1396/115
PEGASUS 50.21	155-21	BUD6395	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1396/36
PEGASUS 50.21	155-21	BUD6396	BUD6296/1	Extendible three-sided basket for proportional distributor	AXB1396/36
PEGASUS 50.21	155-21	BUD6397	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1396/14
PEGASUS 50.21	155-21	BUD6398	BUD6237/1	Extendible three-sided basket for proportional distributor with radio control	AXB1396/14
PEGASUS 50.21	155-21	BUD6399	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1396/19
PEGASUS 50.21	155-21	BUD6400	BUD6270/1	Three-sided basket for proportional distributor with radio control	AXB1396/19
PEGASUS 60.16	158-16	BUD6401	BUD6223/1	Front basket with radio control	AXB1392/7
PEGASUS 60.16	158-16	BUD6402	BUD6223/1	Front basket with radio control	AXB1392/7
PEGASUS 60.16	158-16	BUD6403	BUD6228/1	Extendible front basket with radio control	AXB1392/7
PEGASUS 60.16	158-16	BUD6404	BUD6228/1	Extendible front basket with radio control	AXB1392/7
PEGASUS 60.16	158-16	BUD6405	BUD6233/1	Three-sided basket with radio control	AXB1392/8
PEGASUS 60.16	158-16	BUD6406	BUD6233/1	Three-sided basket with radio control	AXB1392/8
PEGASUS 60.16	158-16	BUD6407	BUD6291/1	Extendible three-sided basket with radio control	AXB1392/8
PEGASUS 60.16	158-16	BUD6408	BUD6291/1	Extendible three-sided basket with radio control	AXB1392/8
PEGASUS 60.16	158-16	BUD6409	BUD6278/1	Extendible three-sided basket with radio control	AXB1392/14
PEGASUS 60.16	158-16	BUD6410	BUD6278/1	Extendible three-sided basket with radio control	AXB1392/14
PEGASUS 60.16	158-16	BUD6411	BUD6371/1	Three-sided basket for a tunnel	AXB1392/114
PEGASUS 60.16	158-16	BUD6412	BUD6371/1	Three-sided basket for a tunnel	AXB1392/114
PEGASUS 60.16	158-16	BUD6413	BUD6373/1	Three-sided basket for a tunnel	AXB1392/115
PEGASUS 60.16	158-16	BUD6414	BUD6373/1	Three-sided basket for a tunnel	AXB1392/115
PEGASUS 50.21	155-21	BUD6438	BUD6436/1	Extendible three-sided basket for proportional distributor	AXB1396/130B

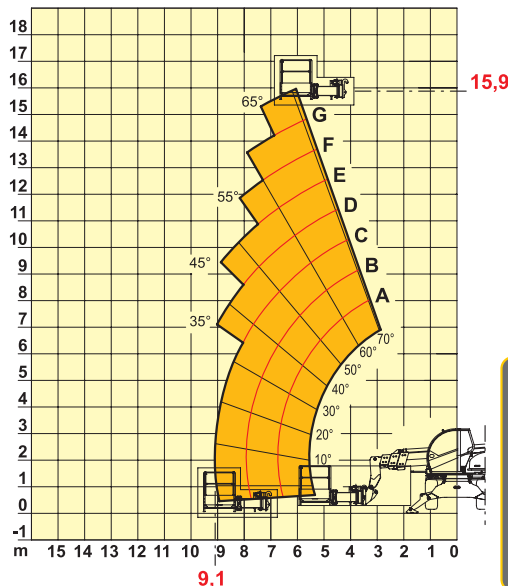




## PEGASUS 38.16



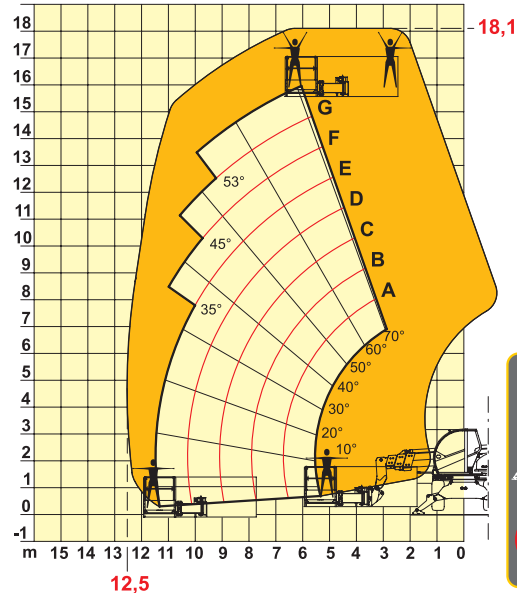
AXBI39I/14



## PEGASUS 38.16



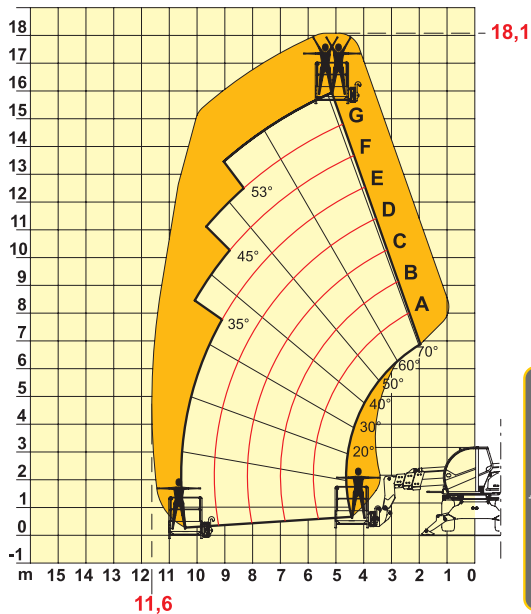
AXBI39I/8



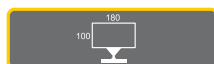
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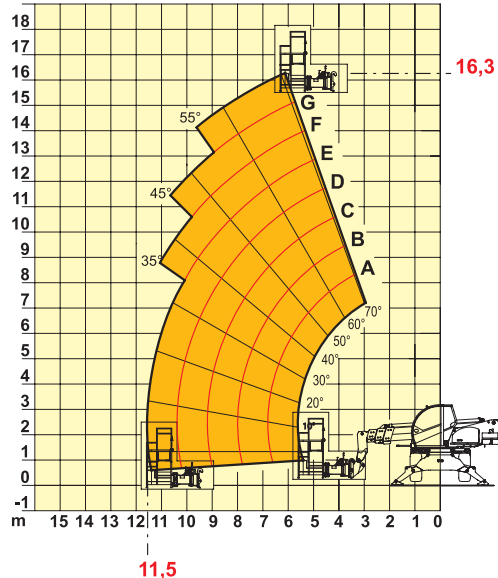
AXBI39I/7



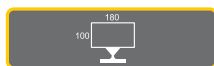
## PEGASUS 38.16



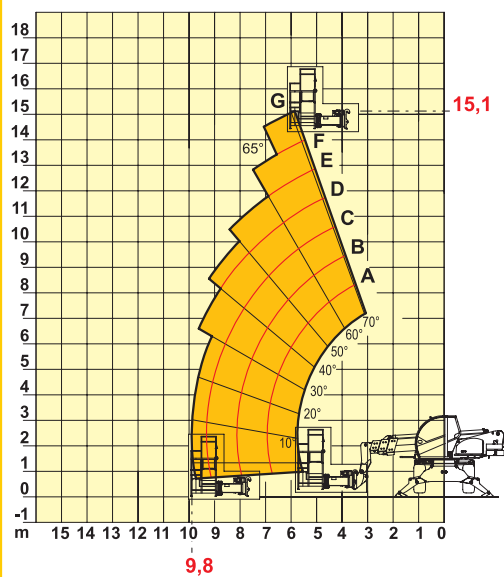
AXBI39I/14



## PEGASUS 38.16



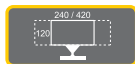
AXB139/115



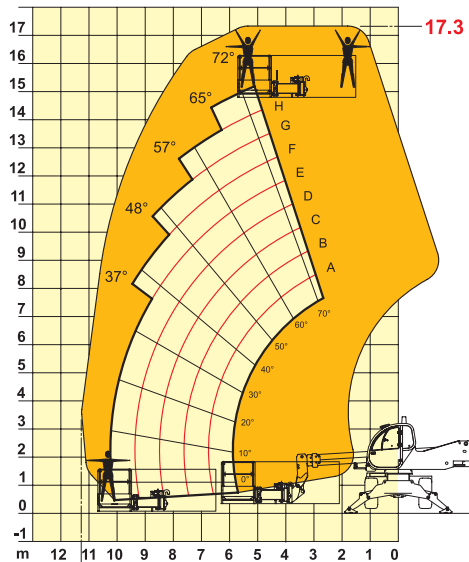
Max.  $\frac{180}{100} = 800 \text{ kg}$



## PEGASUS 38.16 / 400°



AXBI487/17



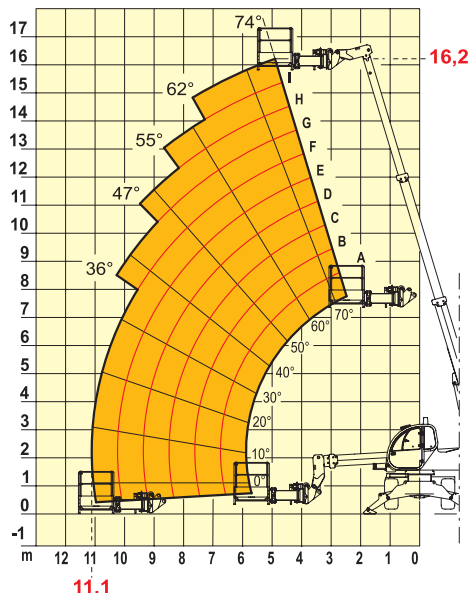
Max.  $\frac{m}{kg} + \frac{m}{kg} = 500 \text{ kg}$



## PEGASUS 38.16 / 400°



AXBI487/8



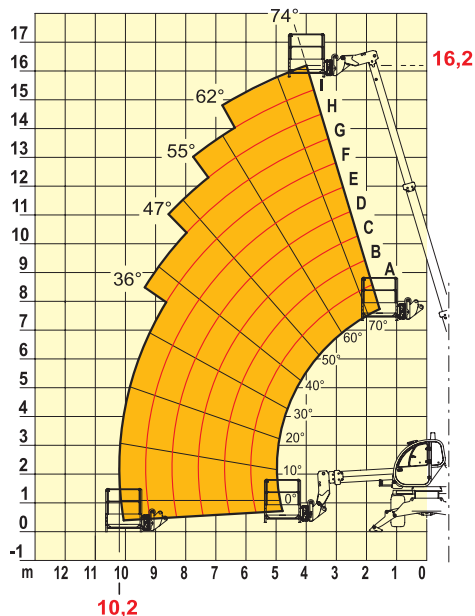
Max.  $\frac{m}{kg} + \frac{m}{kg} = 300 \text{ kg}$



## PEGASUS 38.16 / 400°



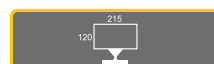
AXBI487/7



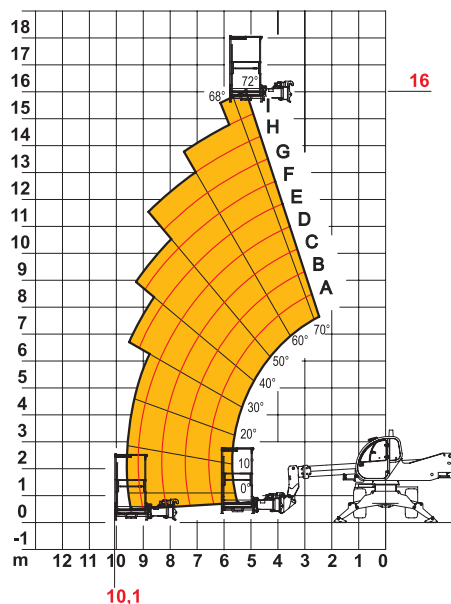
Max.  $\frac{m}{kg} + \frac{m}{kg} = 300 \text{ kg}$



## PEGASUS 38.16 / 400°



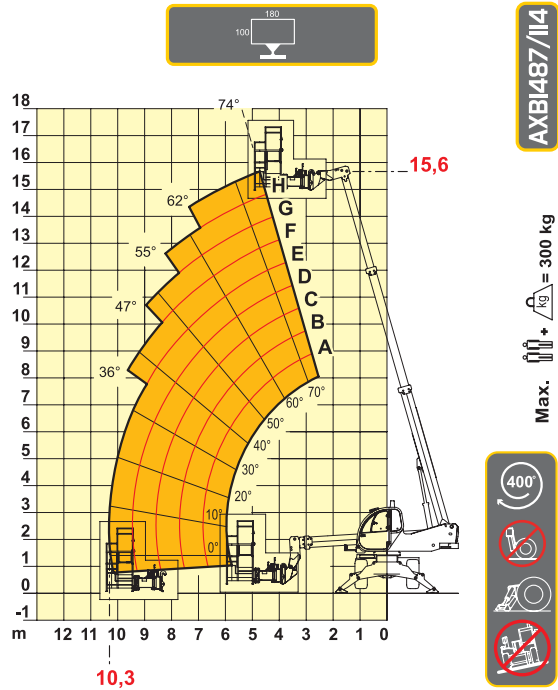
AXBI487/120



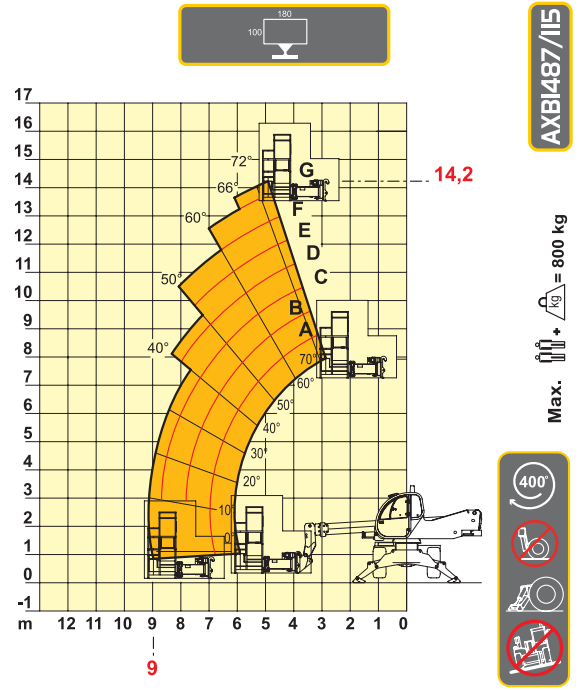
Max.  $\frac{m}{kg} + \frac{m}{kg} = 400 \text{ kg}$



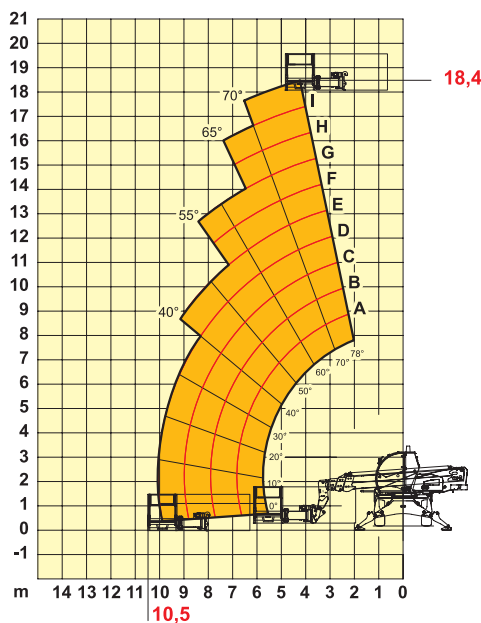
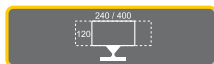
## **PEGASUS 38.16 / 400°**



## **PEGASUS 38.16 / 400°**

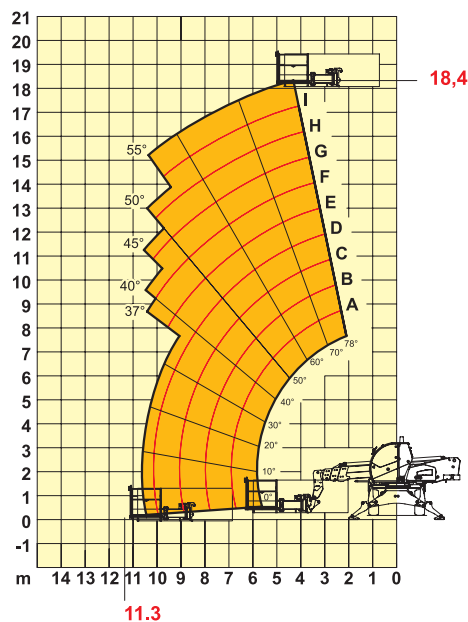


## PEGASUS 40.18 400°



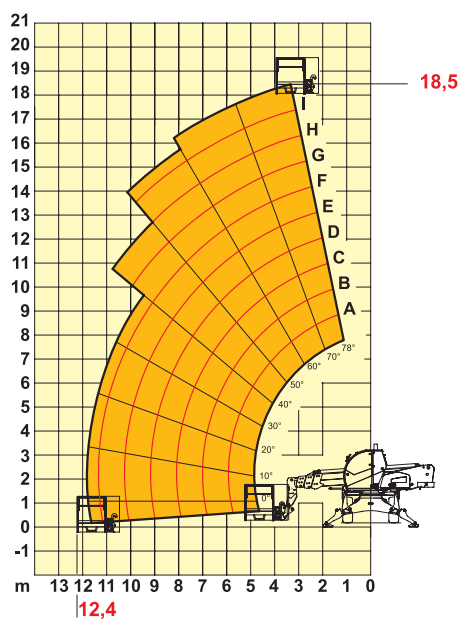
AXBI508/14

## PEGASUS 40.18 400°



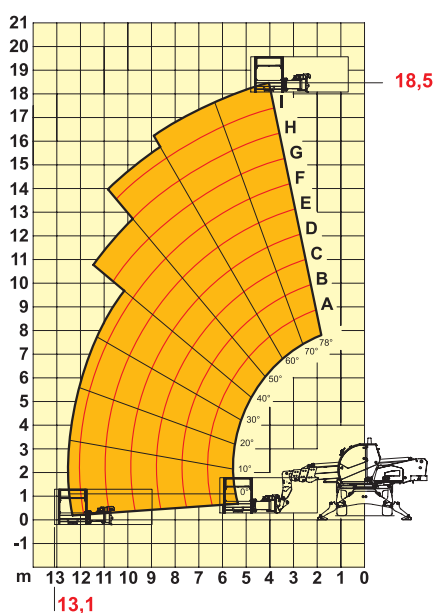
AXBI508/17

## PEGASUS 40.18 400°



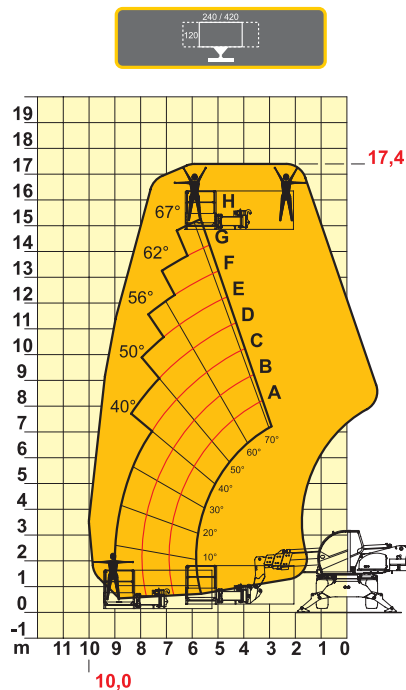
AXBI508/7

## PEGASUS 40.18 400°



AXBI508/8

## PEGASUS 40.17

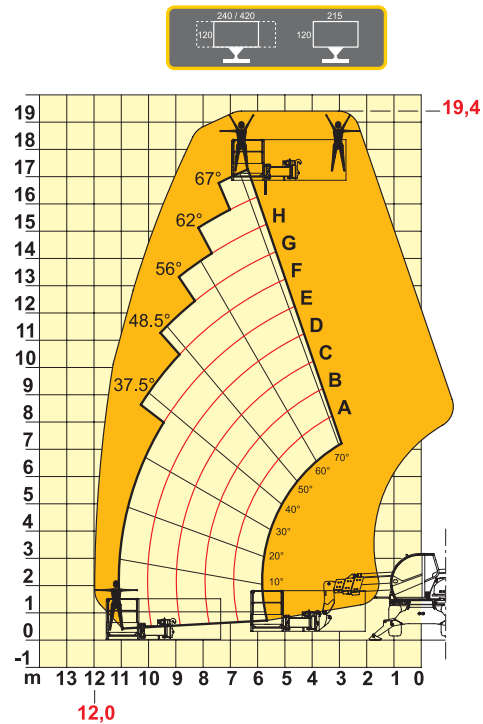


AXB1393/14

Max.  $\frac{\Delta}{kg} = 800 \text{ kg}$



## PEGASUS 40.17

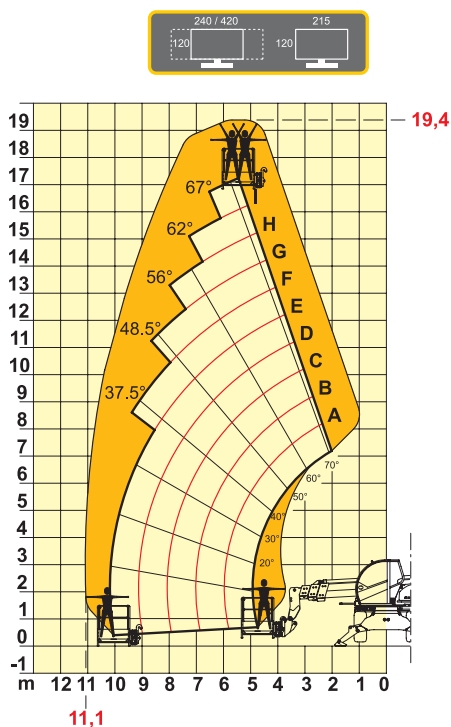


AXB1393/8

Max.  $\frac{\Delta}{kg} = 300 \text{ kg}$



## PEGASUS 40.17

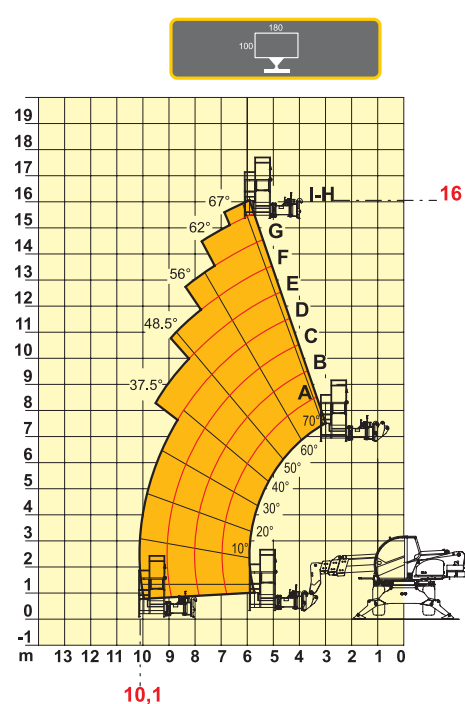


AXB1393/7

Max.  $\frac{\Delta}{kg} = 300 \text{ kg}$



## PEGASUS 40.17

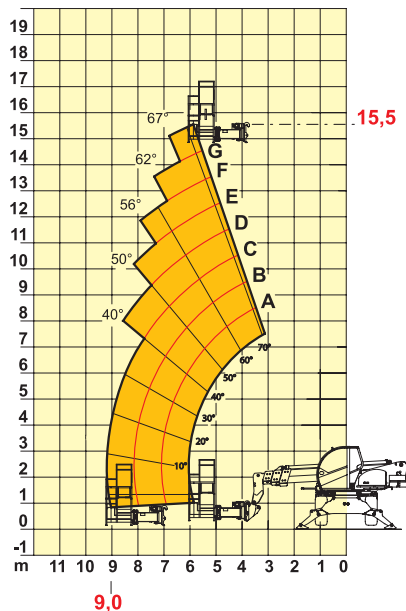
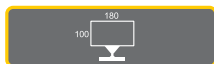


AXB1393/114

Max.  $\frac{\Delta}{kg} = 300 \text{ kg}$



# PEGASUS 40.17

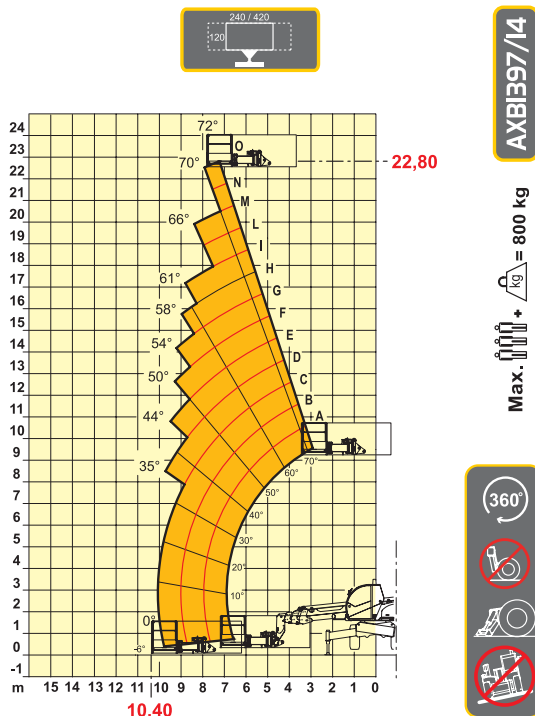


AXB1393/115

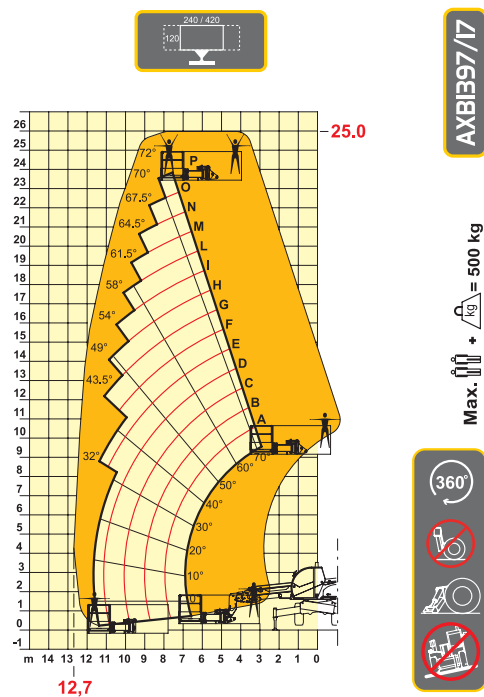
Max.  $\frac{m}{kg} = 800$  kg



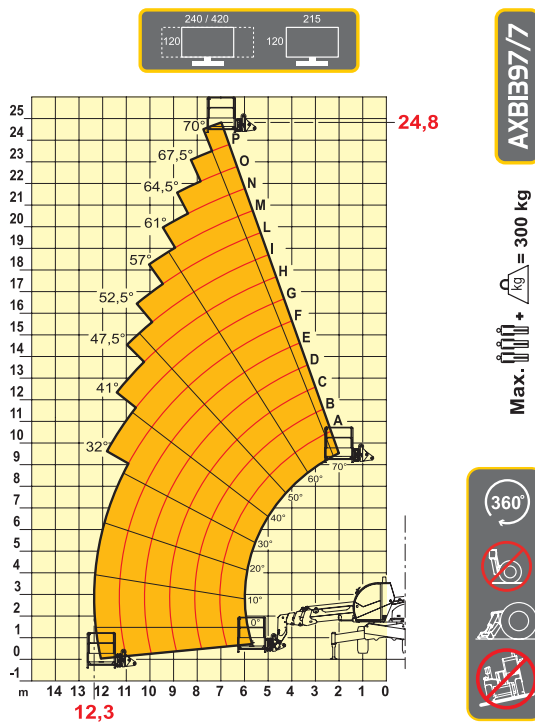
## PEGASUS 40.25



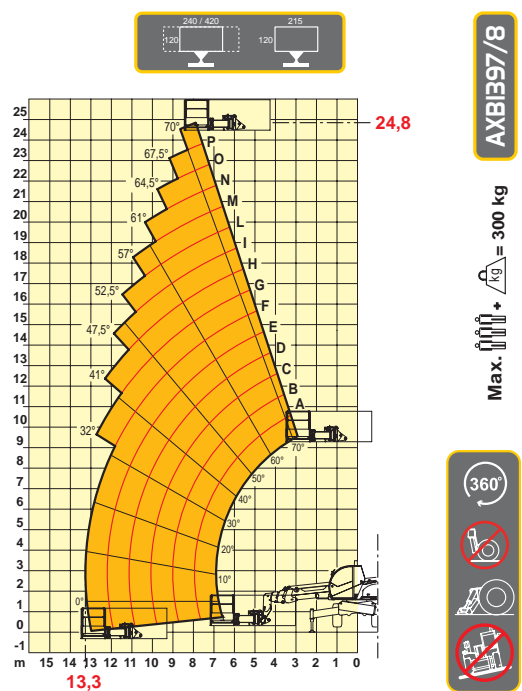
## PEGASUS 40.25



## PEGASUS 40.25



## PEGASUS 40.25



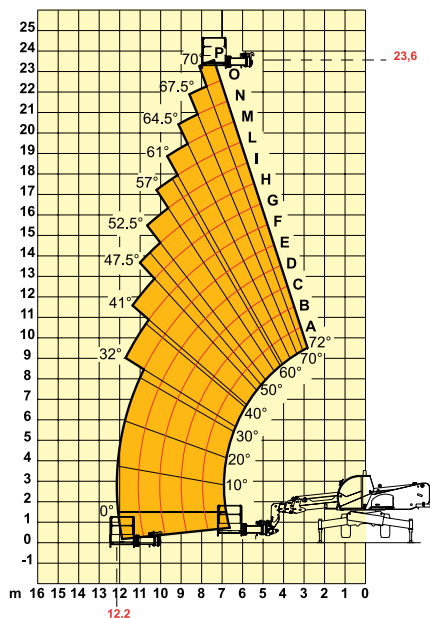


# PEGASUS 40.25

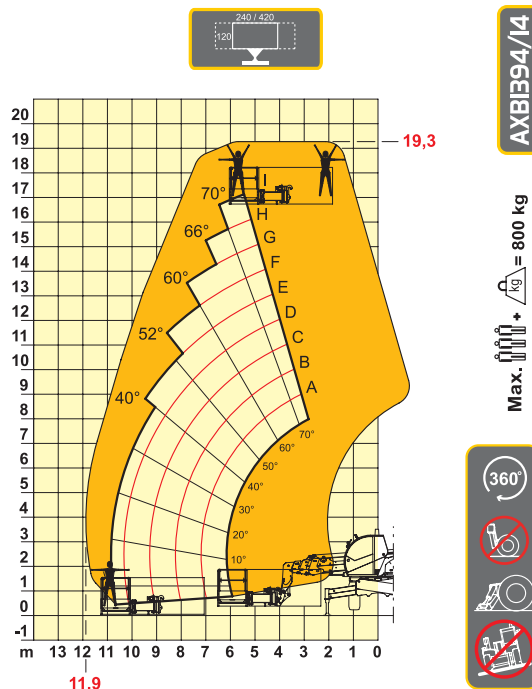


AXBI397/36

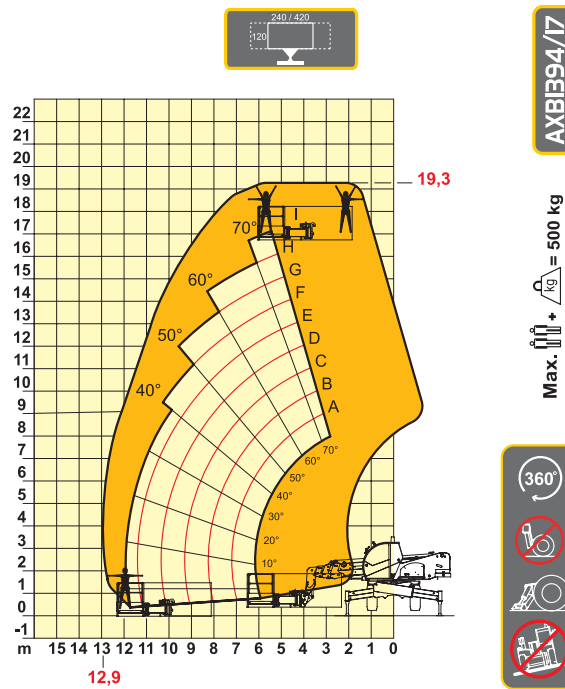
Max. + = 300 kg



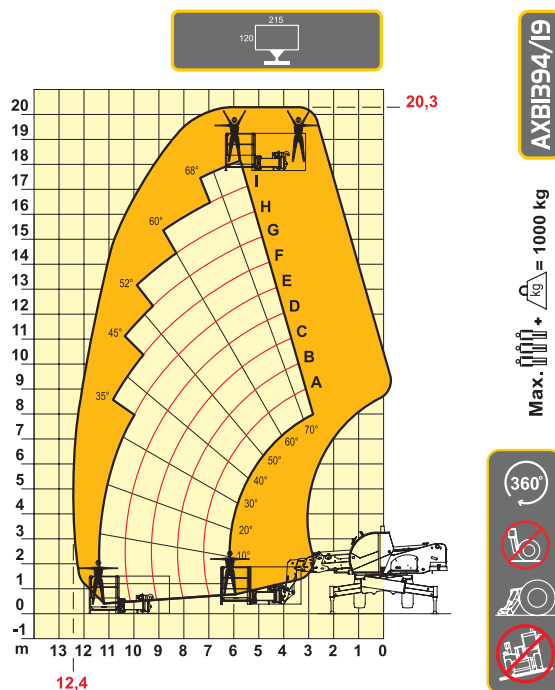
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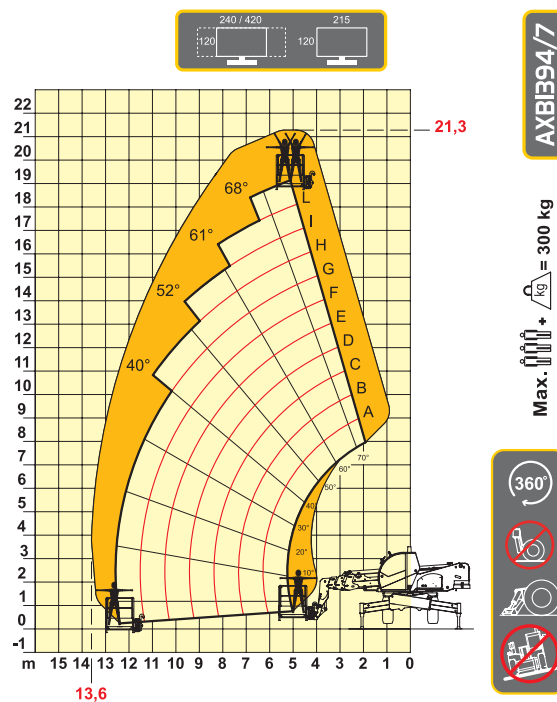
## PEGASUS 45.19



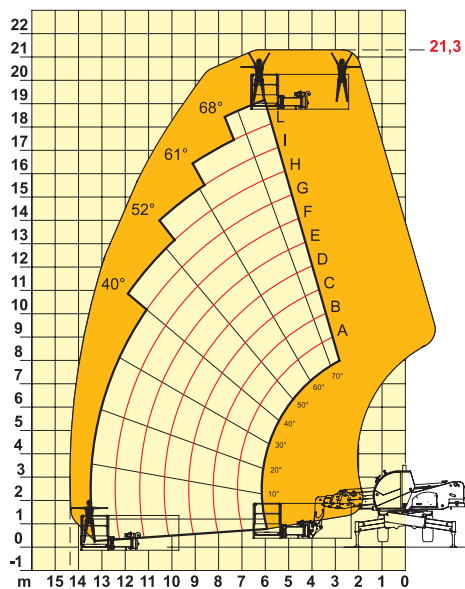
## PEGASUS 45.19



## PEGASUS 45.19



# PEGASUS 45.19



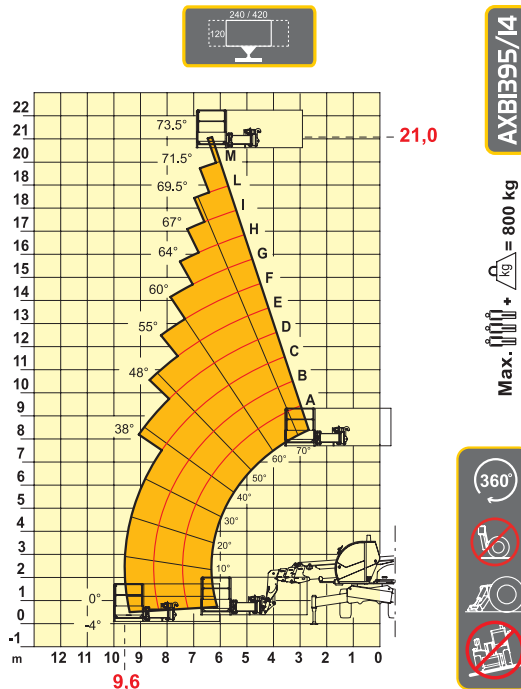
14,4

AXB194/8

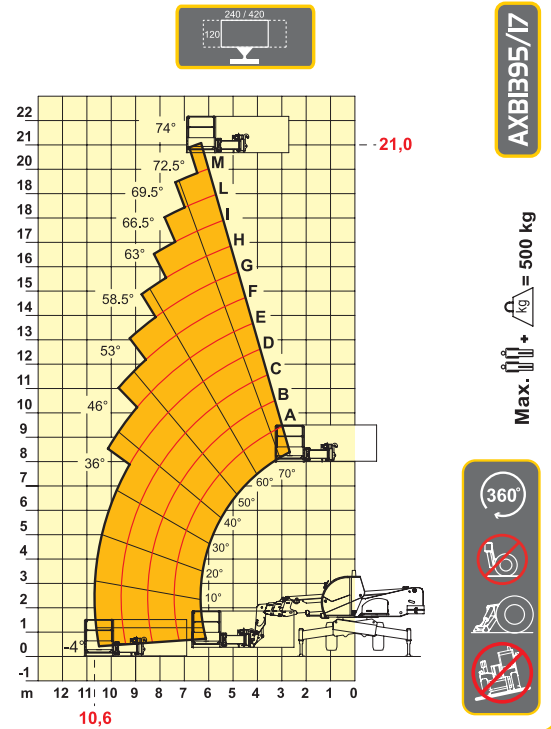
Max. + = 300 kg



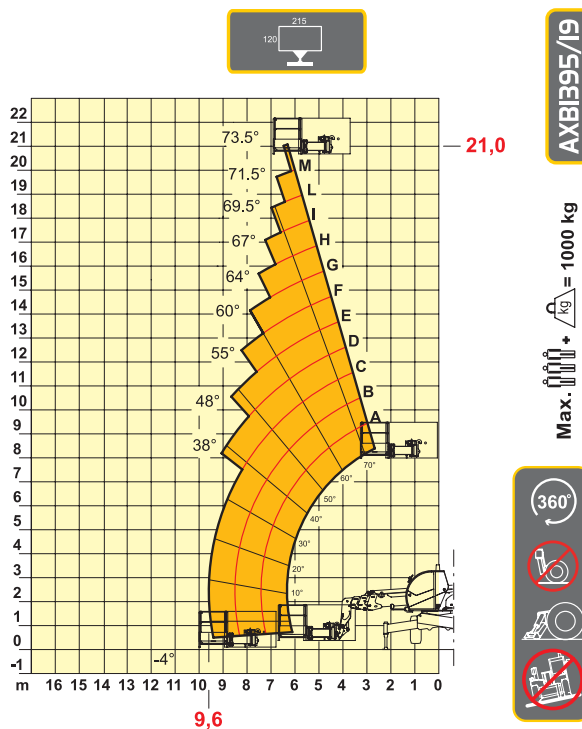
## PEGASUS 45.21



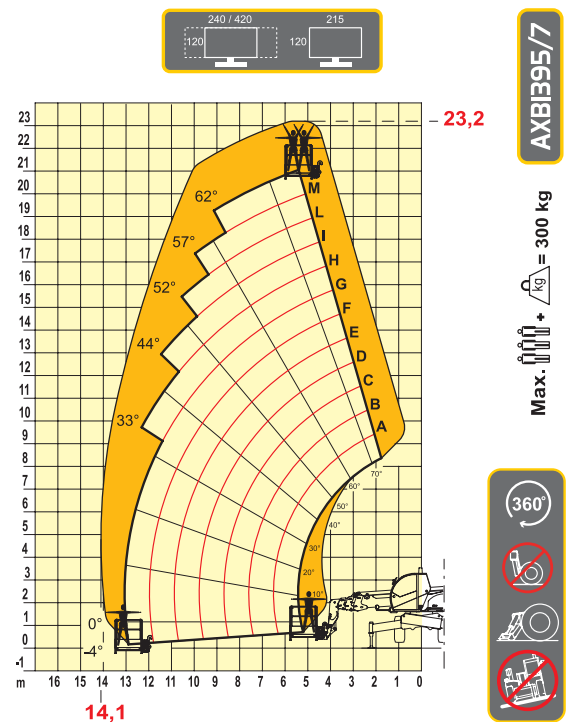
## PEGASUS 45.21



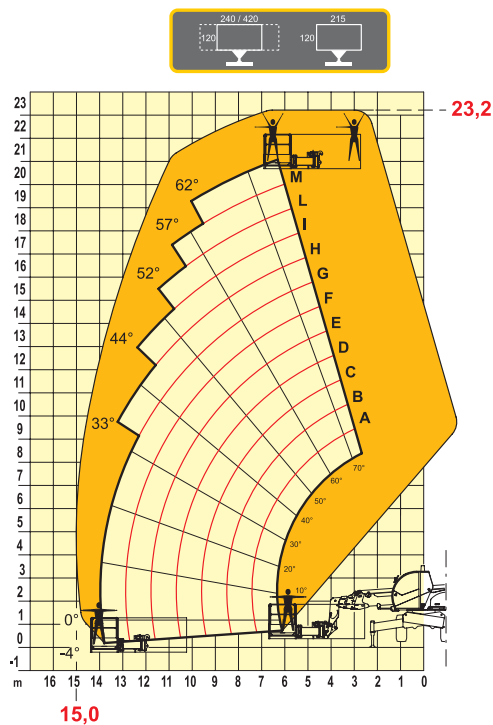
## PEGASUS 45.21



## PEGASUS 45.21



# PEGASUS 45.21



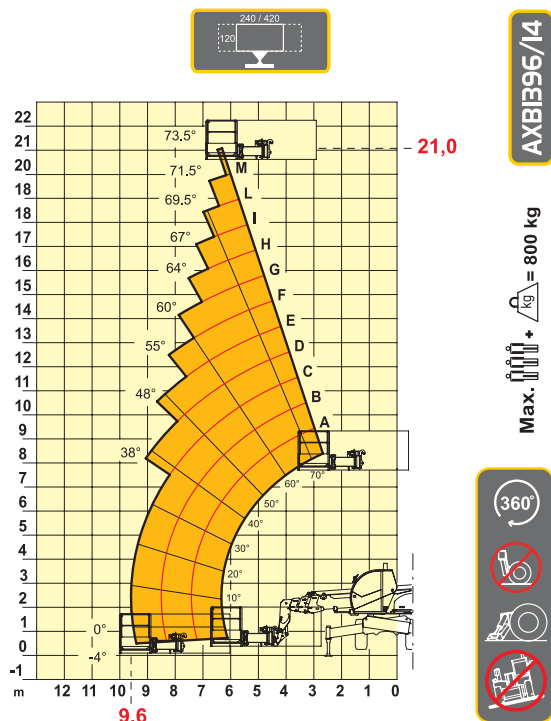
AXBI395/8

Max.  $\frac{A}{kg} = 300 \text{ kg}$

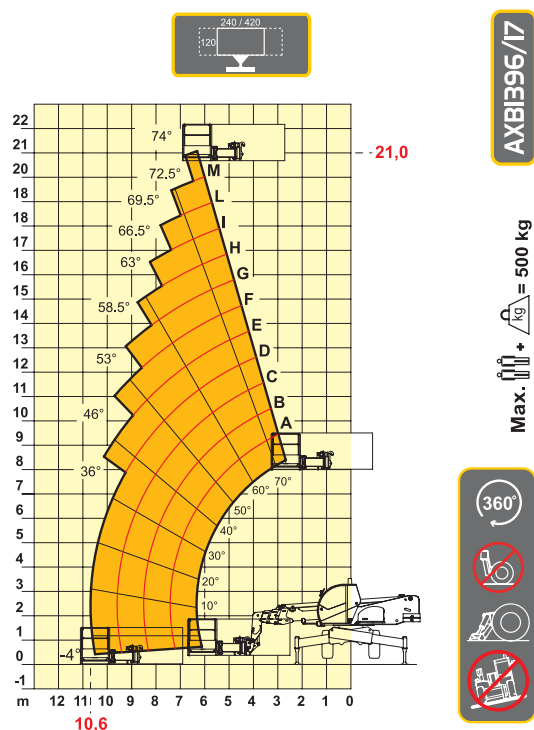
360°



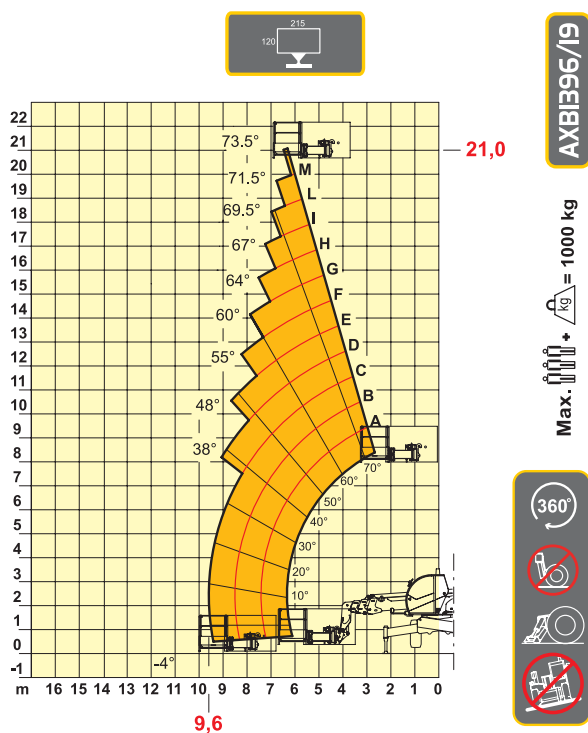
## PEGASUS 50.21



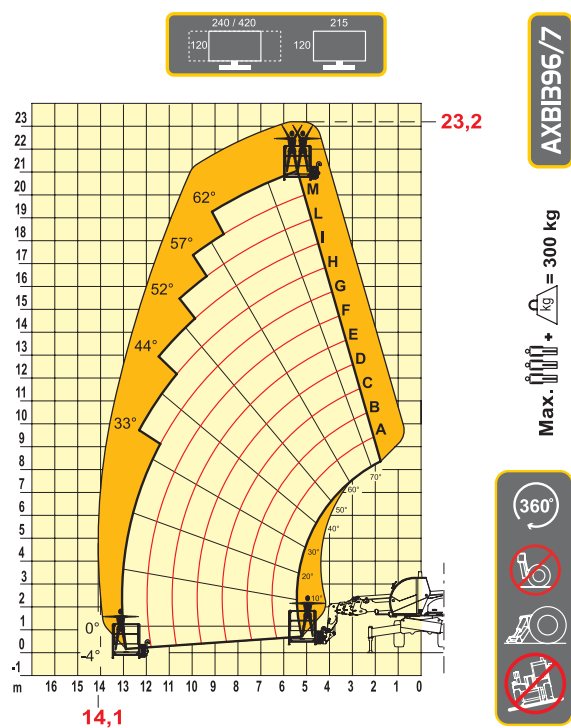
## PEGASUS 50.21



## PEGASUS 50.21



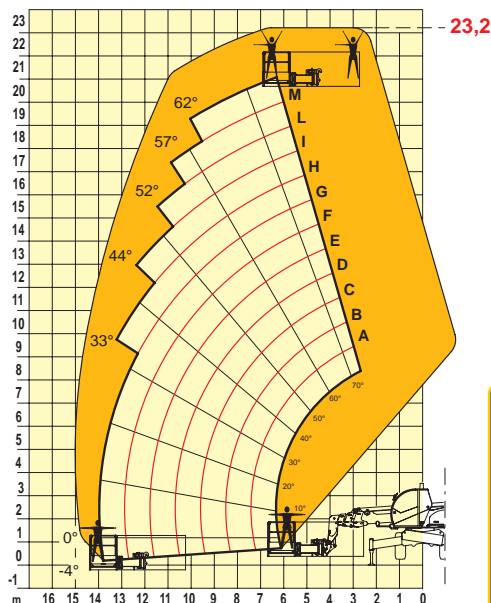
## PEGASUS 50.21



# PEGASUS 50.21



AXBI396/8

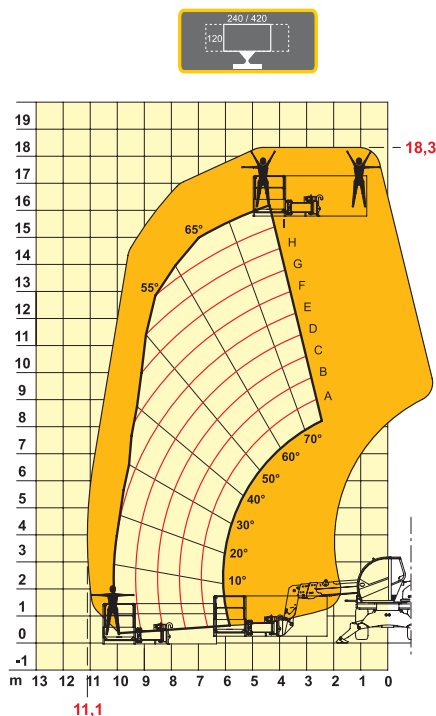


Max. + = 300 kg

360°



## PEGASUS 60.16

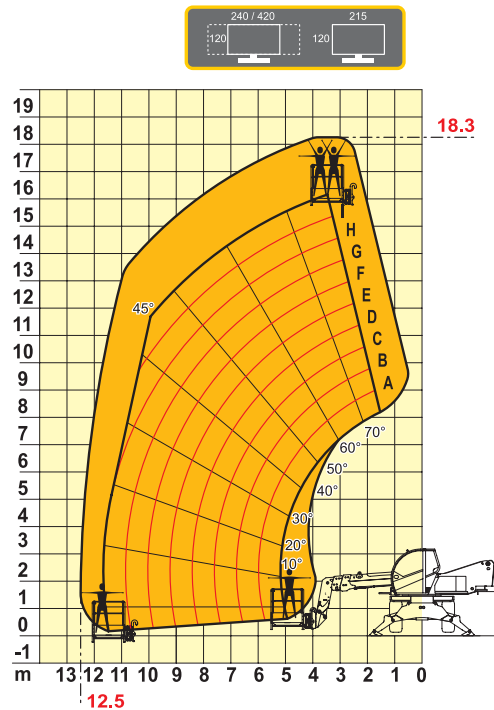


AXBI392/14

Max.  $\frac{\Delta}{kg} = 800 \text{ kg}$



## PEGASUS 60.16

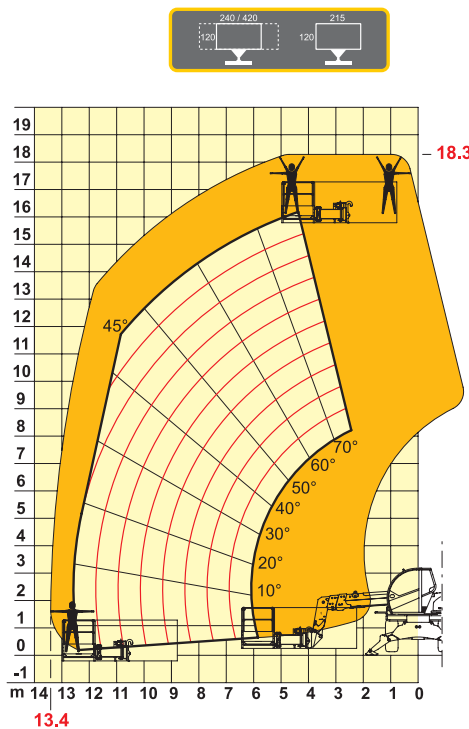


AXBI392/7

Max.  $\frac{\Delta}{kg} = 300 \text{ kg}$



## PEGASUS 60.16



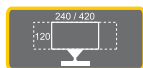
AXBI392/8

Max.  $\frac{\Delta}{kg} = 300 \text{ kg}$

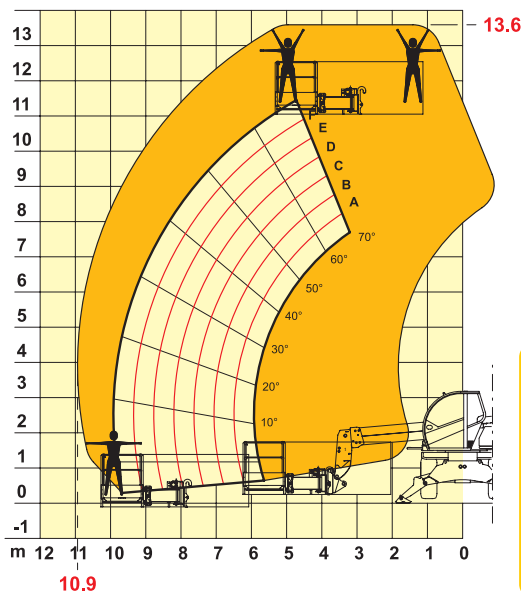




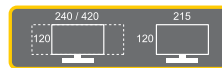
# PEGASUS 70.11



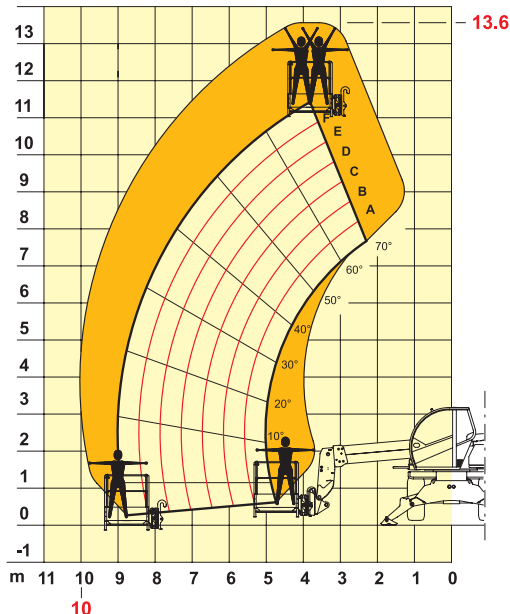
AXBI389/14



# PEGASUS 70.11



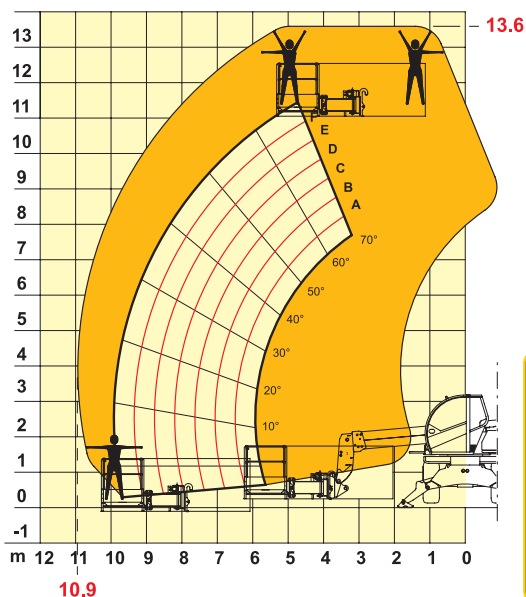
AXBI389/7



# PEGASUS 70.11



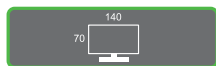
AXBI389/8



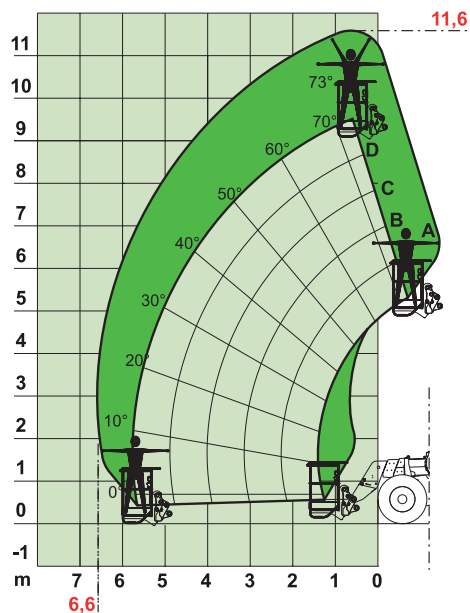
## 21.10 Agri Plus

Vehicle	New vehicle model	Equipment model	Basic equipment code	Description	Diagram on wheels
Agri Plus 40.7 PS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1475/39
Agri Plus 40.7 H PS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1476/39
Agri Plus 38.9 PS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1479/39
Agri Plus 38.9 H PS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1480/39
Agri Plus 40.7 VS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1477/39
Agri Plus 40.7 H VS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1478/39
Agri Plus 38.9 VS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1481/39
Agri Plus 38.9 H VS	190	BUD6342	BUD6340/1	Front basket for the base distributor with radio control	AXB1482/39

# AGRI PLUS 38.9 HPS



AXBI480/39



Max. + = 200 kg



## 22 EQUIPMENT CONTROL REGISTER

Below are given some sheets for compiling the equipment control register.



Refer to the “Control and maintenance registers” chapter for further information on the modes for compiling the Control Register.

Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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Control sheet no







Control date







Machine serial number:

Name of control engineer

Equipment code

Name of control company

Controls	Notes						
<b>Mandatory controls that must be made at 0 hours at the first installation of the equipment</b>							
Closure due to door gravity during ascent/descent (on baskets)		o					
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Ascent/descent limit switches (if present)		o					
Load fastening hook (if present)		o					
Load limiter (if present)		o					
Pull limiter (if present)		o					
Front infeed micro switch closed (if present)		o					
Micro switch for detecting the locking pins (if present)		o					
Maximum hydraulic plant pressure (if present)		o					
Emergency stop button (on baskets)		o					
Hooking points for safety harnesses (on baskets)		o					
Anti-collision sensors (if present)		o					
Spirit level calibration (if present)		o					
Extensimeter transducer (if present)		o					
Shut-off valve (if present)		o					
Load check valve (if present)		o					
Checking the compliance of machine work area with the equipment installed		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation and integrity of electrical connections and circuits		o					
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

Controls	Notes						
<b>Mandatory controls that must be made every 250 hours or every 2 months</b>							
Control of the machine / equipment for the presence and state of preservation safety Decals		o					
Control of the machine \ equipment for the presence and state of preservation of Bearing capacity diagrams		o					
Control of the machine \ equipment for the presence and state of preservation of Use and maintenance manual		o					
Control of the machine \ equipment for the presence and state of preservation of Nameplates		o					
Spirit level calibration (if present)		o					
Checking the compliance of machine operating mode with the equipment installed		o					
Checking the operation of the emergency push-buttons		o					
<b>Mandatory controls that must be made every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
Maximum hydraulic plant pressure (if present)		o					

Notes	Stamp and signature
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## 23 EQUIPMENT MAINTENANCE REGISTER

Below are given some sheets for compiling the Equipment Maintenance control register.



Refer to the “Control and maintenance registers” chapter for further information on the modes for compiling the Maintenance Register.

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)		o					
Checking the wear condition		o					

## Every 10 hours or every month

Metal framework, no cracks		o					
Decals		o					
Safety devices		o					
Ropes and chains (if present)		o					
Hooks (if present)		o					
Structural integrity		o					

## Every 50 hours or every month

Mechanical joints							o
Ropes and chains (if present)							o
Nuts and bolts coupling torque				o			
Hydraulic fitting coupling torque				o			
Hydraulic plant leaks		o					
Ropes and chains (if present)			o				

## Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.		o					
Hydraulic oil						o	

## Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)		o		o			o
--	--	---	--	---	--	--	---

## Every 1000 hours or every year

Ropes and chains (if present)						o	
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o



# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

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Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

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Ropes and chains (if present)

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Nuts and bolts coupling torque

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Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
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**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

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Ropes and chains (if present)

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Nuts and bolts coupling torque

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Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

o

Ropes and chains (if present)

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Nuts and bolts coupling torque

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Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

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Ropes and chains (if present)

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Nuts and bolts coupling torque

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Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decals

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o



# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance

Notes



According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered

Ropes and chains (if present)

o

Checking the wear condition

o

Every 10 hours or every month

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

Every 50 hours or every month

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

Every 250 hours or every 2 months

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

Every 400 hours or every 3 months

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

Every 1000 hours or every year

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

Maintenance date

Name of service engineer

Name of service company

According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered							
Ropes and chains (if present)		o					
Checking the wear condition		o					
<b>Every 10 hours or every month</b>							
Metal framework, no cracks		o					
Decalcs		o					
Safety devices		o					
Ropes and chains (if present)		o					
Hooks (if present)		o					
Structural integrity		o					
<b>Every 50 hours or every month</b>							
Mechanical joints							o
Ropes and chains (if present)							o
Nuts and bolts coupling torque				o			
Hydraulic fitting coupling torque				o			
Hydraulic plant leaks		o					
Ropes and chains (if present)			o				
<b>Every 250 hours or every 2 months</b>							
Hydraulic plant-valves-distributors-pipes etc. efficiency.		o					
Hydraulic oil						o	
<b>Every 400 hours or every 3 months</b>							
Hooking points, wear condition and adjustment of chains (if present)		o		o			o
<b>Every 1000 hours or every year</b>							
Ropes and chains (if present)						o	
Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)		o					

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

Metal framework, no cracks

o

Decalcs

o

Safety devices

o

Ropes and chains (if present)

o

Hooks (if present)

o

Structural integrity

o

**Every 50 hours or every month**

Mechanical joints

o

Ropes and chains (if present)

o

Nuts and bolts coupling torque

o

Hydraulic fitting coupling torque

o

Hydraulic plant leaks

o

Ropes and chains (if present)

o

**Every 250 hours or every 2 months**

Hydraulic plant-valves-distributors-pipes etc. efficiency.

o

Hydraulic oil

o

**Every 400 hours or every 3 months**

Hooking points, wear condition and adjustment of chains (if present)

o

o

o

**Every 1000 hours or every year**

Ropes and chains (if present)

o

Check general integrity and state of wear of the equipment (framework, cables, hooks, chains, ropes, hydraulic pipes, electric cables, end run, transducers, strain gauges, radio-control)

o

# MAINTENANCE REGISTER



Maintenance sheet no

Maintenance date

Equipment code:

Name of service engineer

Name of service company

Maintenance	Notes						
-------------	-------	--	--	--	--	--	--

**According to the needs - Section that must be compiled in the case of checks that are not related to the expiration of the fixed periods but required due to the machine operation more or less altered**

Ropes and chains (if present)

o

Checking the wear condition

o

**Every 10 hours or every month**

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o

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